

Sprint 1 Planning Meeting Minutes:

Date: 01/12/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,
Ajani Cole

Start time: 5:00 P.M.

End time: 7:00 P.M.

The following user stories were previously accepted and completed by the product owners and members:

- **User Story #1: Password Customization**
 - How this should be reflected on the user story definition in Mingle:
 - Test compatibility of special characters on different websites.
 - Ensure password generator never generates a password with only one character type.
 - Make the GUI for password customization more user friendly
- **User Story #2: Create a user GUI**
 - How this should be reflected on the user story definition in Mingle:
 - Ensures an easy way for users to navigate the web app.
- **User Story #3: Password Strength Meter**
 - How this should be reflected on the user story definition in Mingle:
 - Gives the user feedback on how secure their password is.
- **User Story #4: Personalized Password**
 - How this should be reflected on the user story definition in Mingle:
 - Allows the user to use specific words that they may want to appear in the generated password
- **User Story #5: Single Click**
 - How this should be reflected on the user story definition in Mingle:
 - Ensures that the users password gets copied to their clipboard if desired.

After discussion, the velocity of the team was estimated to be 5 out of 5.

The product owner chose the following user stories to be tried during this sprint. They are not ordered based on their priority.

- User Story #6: **Regenerate/Undo Last Password**
 - How this should be reflected on the user story definition:
 - If a user performs a mis-click unintentionally and wants to use an old, generated password, they can conveniently regain the password by the click of a button
- User Story #7: **Password History**
 - How this should be reflected on the user story definition:
 - Allows the user to save passwords natively within the program
 - Locally save passwords for maximum security
- User Story #8: **Password Breach Check**
 - How this should be reflected on the user story definition:
 - Integrates an API (haveibeenpwned) to check their database for breached passwords
 - Alerts the user if the password is breached
- User Story #9: **Password Expiration**
 - How this should be reflected on the user story definition:
 - Allows users to specify a time period
 - Alerts user when the time period expires
 - Shows which passwords will expire soon
- User Story #10: **Password Cross-Check**
 - How this should be reflected on the user story definition:
 - Checks User's generated password with previously saved passwords to check if its already used, if used, prompts user with the option to either keep or disregard generated password

The team members indicated their willingness to work on the following user stories.

- User Story #5:
 - Ulyana Clarke
 - Ajani Cole
- User Story #6:
 - Christian Colon
 - Ajani Cole
- User Story #7:
 - Ulyana Clarke
 - Christian Colon
- User Story #8:
 - Marcell Placencia
 - Christian Colon
- User Story #9:
 - Marcell Placencia
 - Christin Colon
- User Story #10:
 - Zeyon Charles
 - Ulyana Clarke

Daily Scrum Meeting Minutes

Date: 01/12/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,
Ajani Cole

Start time: 5:00 P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke, Ajani Cole:

- What took place in the meeting?
 - We discussed user stories that have already been completed
 - Each member has also proposed a new user story to be implemented and tested throughout the sprint.

Daily Scrum Meeting Minutes

Date: 01/13/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,
Ajani Cole

Start time: 6:30 P.M.

End time: 7:30 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke, Ajani Cole:

- What took place in the meeting?
 - Researching new user stories
 - Started to implement new user stories and features

Daily Scrum Meeting Minutes

Date: 01/14/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,
Ajani Cole

Start time: 5:00 P.M.

End time: 5:30 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke, Ajani Cole:

- What took place in the meeting?
 - Researching new user stories
 - Started to implement new user stories and features

Daily Scrum Meeting Minutes

Date: 01/15/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,
Ajani Cole

Start time: 7:00 P.M.

End time: 7:30 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke, Ajani Cole:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features

Daily Scrum Meeting Minutes

Date: 01/16/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,
Ajani Cole

Start time: 4:30 P.M.

End time: 5:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke, Ajani Cole:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features

Daily Scrum Meeting Minutes

Date: 01/19/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,
Ajani Cole

Start time: 6:00 P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke, Ajani Cole:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features

We were informed that our team member, Ajani Cole, would be departing our group due to studying a different discipline/major.

Backlog Meeting Minutes

Date: 01/19/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,
Ajani Cole

Start time: 06:00 P.M.

End time: 07:00 P.M.

We were informed that our team member, Ajani Cole, would be departing our group due to studying a different discipline/major.

We started this project with these user stories that were previously completed:

- User Story #1: **Password Customization**
 - How this should be reflected on the user story definition:
 - Test compatibility of special characters on different websites.
 - Ensure password generator never generates a password with only one character type.
 - Make the GUI for password customization more user friendly
- User Story #2: **Create a user GUI**
 - How this should be reflected on the user story definition:
 - Ensures an easy way for users to navigate the web app.
- User Story #3: **Password Strength Meter**
 - How this should be reflected on the user story definition:
 - Gives the user feedback on how secure their password is.
- User Story #4: **Personalized Password**
 - How this should be reflected on the user story definition:
 - Allows the user to use specific words that they may want to appear in the generated password
- User Story #5: **Single Click**
 - How this should be reflected on the user story definition:
 - Ensures that the users password gets copied to their clipboard if desired.

In the next few days, we plan to:

- Continue to work on the unfinished user stories
- Research new user stories
- Discuss possibly adding another team member

Daily Scrum Meeting Minutes

Date: 01/20/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30 P.M.

End time: 7:30 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features

Daily Scrum Meeting Minutes

Date: 01/21/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 8:00 P.M.

End time: 8:30 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features

Daily Scrum Meeting Minutes

Date: 01/22/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00 P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features

Daily Scrum Meeting Minutes

Date: 01/23/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00 P.M.

End time: 7:45 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Sprint Review Meeting Minutes

Date: 01/25/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:30 P.M.

End time: 9:30 P.M.

Completed:

- Database infrastructure design and implementation (unplanned technical prerequisite)

In Progress/Carried Over:

- All originally planned user stories remain incomplete and will continue in Sprint 2

Rationale:

The team discovered during sprint execution that database infrastructure was a critical prerequisite for all planned user stories. This dependency was not identified during sprint planning. While no planned user stories were completed, the necessary foundation has been established, positioning the team to deliver these features in the next sprint.

Sprint Retrospective Meeting Minutes

Date: 01/25/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:30 P.M.

End time: 9:30 P.M.

What went wrong?

- Did we do a good job estimating our team's velocity?
 - Our team's velocity estimation for this sprint requires refinement. We initially underestimated the foundational work needed, particularly the database creation and implementation that served as a prerequisite for multiple user stories. This dependency was not adequately accounted for in our sprint planning, resulting in a more conservative actual velocity than anticipated.
- Did we do a good job estimating the points (time required) for each user story?
 - The story point estimates for individual user stories did not fully capture the complexity and time requirements of the work. Several stories had implicit dependencies on database infrastructure that were not reflected in their original point values. Moving forward, we should decompose stories to better separate infrastructure work from feature implementation and adjust points accordingly.
- Did each team member work as scheduled?
 - The sprint experienced a significant disruption when one team member departed mid-sprint, impacting our ability to complete the planned sprint scope.

What went right?

- The team collaborated effectively. We shared different ideas which will contribute to a better product.
- The program has been looking better as we have worked on it more.

How to address the issues in the next sprint?

Due to the combination of underestimated technical dependencies, the unforeseen loss of a team member, and the resulting capacity constraints, several user stories were unable to be completed within the two-week sprint timeline and have been moved to the next sprint.

- How to improve the process?
 - To improve the process, we can have more communication throughout our daily sprint meetings.
- How to improve the product?
 - To improve the product, we can implement more user stories to further build the project.
 - We can work on the design of the product so that users can efficiently use our program.

Sprint 1 Planning Meeting Minutes:

Date: 01/26/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00 P.M.

End time: 7:00 P.M.

The following user stories were previously accepted and completed by the product owners and

- **User Story #8: Password Breach Check**
 - How this should be reflected on the user story definition:
 - Integrates an API (haveibeenpwned) to check their database for breached passwords
 - Alerts the user if the password is breached

After discussion, the velocity of the team was estimated to be 6 out of 6.

The product owner chose the following user stories to be tried during this sprint. They are not ordered based on their priority.

- **User Story #6: Regenerate/Undo Last Password**
 - How this should be reflected on the user story definition:
 - If a user performs a mis-click unintentionally and wants to use an old, generated password, they can conveniently regain the password by the click of a button
- **User Story #7: Password History**
 - How this should be reflected on the user story definition:
 - Allows the user to save passwords natively within the program
 - Locally save passwords for maximum security

- User Story #9: **Password Expiration**
 - How this should be reflected on the user story definition:
 - Allows users to specify a time period
 - Alerts user when the time period expires
 - Shows which passwords will expire soon
- User Story #10: **Password Cross-Check**
 - How this should be reflected on the user story definition:
 - Checks User's generated password with previously saved passwords to check if its already used, if used, prompts user with the option to either keep or disregard generated password
- User Story #11: **Database Infrastructure**
 - How this should be reflected on the user story definition:
 - An infrastructure so that we can build and deploy features that depend on data persistence.
- User Story #12: **Password Update Reminders**
 - How this should be reflected on the user story definition:
 - User receives notification when passwords are older than recommended period (90 days)
 - User can mark passwords as updated or generate new ones from notification

The team members indicated their willingness to work on the following user stories.

- User Story #6:
 - Christian Colon
 - Ulyana Clarke
- User Story #7:
 - Ulyana Clarke
 - Christian Colon
- User Story #8:
 - Marcell Placencia
 - Christian Colon
- User Story #9:

- Marcell Placencia
 - Christian Colon
- User Story #10:
 - Zeyon Charles
 - Ulyana Clarke
- User Story #11:
 - Marcell Placencia
 - Ulyana Clarke
 - Christian Colon
- User Story #12:
 - Ulyana Clarke
 - Marcell Placencia

Daily Scrum Meeting Minutes

Date: 01/26/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00 P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 01/27/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00 P.M.

End time: 7:45 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 01/28/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:20 P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 01/29/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30P.M.

End time: 7:30 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 01/30/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 02/02/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Backlog Meeting Minutes

Date: 02/2/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 07:00 P.M.

End time: 08:00 P.M.

We have created a database for our program to use and save potential passwords. Now, we should be able to further implement our user stories as well as create new ones.

We started this project with these user stories that were previously completed:

- User Story #1: **Password Customization**
 - How this should be reflected on the user story definition:
 - Test compatibility of special characters on different websites.
 - Ensure password generator never generates a password with only one character type.
 - Make the GUI for password customization more user friendly
- User Story #2: **Create a user GUI**
 - How this should be reflected on the user story definition:
 - Ensures an easy way for users to navigate the web app.
- User Story #3: **Password Strength Meter**
 - How this should be reflected on the user story definition:
 - Gives the user feedback on how secure their password is.
- User Story #4: **Personalized Password**
 - How this should be reflected on the user story definition:
 - Allows the user to use specific words that they may want to appear in the generated password
- User Story #5: **Single Click**
 - How this should be reflected on the user story definition:
 - Ensures that the users password gets copied to their clipboard if desired.

In the next few days, we plan to:

- Continue to work on the unfinished user stories
- Research new user stories
- Discuss possibly adding another team member

Daily Scrum Meeting Minutes

Date: 02/03/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:45P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 02/04/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 5:30P.M.

End time: 6:50 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 02/05/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 02/06/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30P.M.

End time: 7:30 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Sprint Review Meeting Minutes

Date: 02/8/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30 P.M.

End time: 8:30 P.M.

The following user stories were completed:

- User Story #11: **Database Infrastructure**
 - How this should be reflected on the user story definition:
 - An infrastructure so that we can build and deploy features that depend on data persistence

The following user stories are still in progress:

- User Story #6: **Regenerate/Undo Last Password**
 - How this should be reflected on the user story definition:
 - If a user performs a mis-click unintentionally and wants to use an old, generated password, they can conveniently regain the password by the click of a button
- User Story #7: **Password History**
 - How this should be reflected on the user story definition:
 - Allows the user to save passwords natively within the program
 - Locally save passwords for maximum security

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Spring Planning meeting.

- User Story #9: **Password Expiration**
 - How this should be reflected on the user story definition:
 - Allows users to specify a time period
 - Alerts user when the time period expires
 - Shows which passwords will expire soon
- User Story #10: **Password Cross-Check**
 - How this should be reflected on the user story definition:
 - Checks User's generated password with previously saved passwords to check if its already used, if used, prompts user with the option to either keep or disregard generated password
- User Story #12: **Password Update Reminders**
 - How this should be reflected on the user story definition:
 - User receives notification when passwords are older than recommended period (90 days)
 - User can mark passwords as updated or generate new ones from notification

Sprint Retrospective Meeting Minutes

Date: 02/8/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30 P.M.

End time: 8:30 P.M.

What went wrong?

- Did we do a good job estimating our team's velocity?
 - Our team's velocity estimation for this sprint requires refinement. We initially underestimated the foundational work needed, particularly the database creation and implementation that served as a prerequisite for multiple user stories. This dependency was not adequately accounted for in our sprint planning, resulting in a more conservative actual velocity than anticipated.
- Did we do a good job estimating the points (time required) for each user story?
 - The story point estimates for individual user stories did not fully capture the complexity and time requirements of the work. Several stories had implicit dependencies on database infrastructure that were not reflected in their original point values. Moving forward, we should decompose stories to better separate infrastructure work from feature implementation and adjust points accordingly.
- Did each team member work as scheduled?
 - The sprint experienced a significant disruption when one team member departed mid-sprint, impacting our ability to complete the planned sprint scope.

What went right?

- The team collaborated effectively. We shared different ideas which will contribute to a better product.
- The program has been looking better as we have worked on it more.

How to address the issues in the next sprint?

Due to the combination of underestimated technical dependencies and the resulting capacity constraints, several user stories were unable to be completed within the two-week sprint timeline and have been moved to the next sprint.

- How to improve the process?
 - To improve the process, we can have more communication throughout our daily sprint meetings.
- How to improve the product?
 - To improve the product, we can implement more user stories to further build the project.
 - We can work on the design of the product so that users can efficiently use our program.

Sprint 3 Planning Meeting Minutes:

Date: 02/9/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00 P.M.

End time: 8:00 P.M.

After discussion, the velocity of the team was estimated to be 5 out of 7.

The following user stories are still in progress from the previous sprint:

- User Story #6: **Regenerate/Undo Last Password**
 - How this should be reflected on the user story definition:
 - If a user performs a mis-click unintentionally and wants to use an old, generated password, they can conveniently regain the password by the click of a button
- User Story #7: **Password History**
 - How this should be reflected on the user story definition:
 - Allows the user to save passwords natively within the program
 - Locally save passwords for maximum security

The product owner chose the following user stories to be tried during this sprint. They are not ordered based on their priority.

- User Story #9: **Password Expiration**
 - How this should be reflected on the user story definition:
 - Allows users to specify a time period
 - Alerts user when the time period expires
 - Shows which passwords will expire soon
- User Story #10: **Password Cross-Check**
 - How this should be reflected on the user story definition:

- Checks User's generated password with previously saved passwords to check if its already used, if used, prompts user with the option to either keep or disregard generated password
- User Story #13: **Sleek UI**
 - How this should be reflected on the user story definition:
 - Modern minimalistic design
 - Appealing to the eye & user friendly
- User Story #14: **Offline Functionality**
 - As a user, I want the password generator to work without an internet connection so that my data remains secure and private.
 - Ensure no external API calls are required for generation
 - Verify passwords can still be created offline
- User Story #15: **Password File Encryption**
 - How this should be reflected on the user story definition:
 - Allows the user to export their saved passwords as an encrypted file (e.g., .enc or encrypted .json)
 - Requires the user to set a decryption passphrase at the time of export
 - Ensures the exported file cannot be read by any external application without the correct passphrase

The team members indicated their willingness to work on the following user stories.

- User Story #6:
 - Christian Colon
 - Ulyana Clarke
 - Marcell Placencia
- User Story #7:
 - Ulyana Clarke
 - Christian Colon
 - Marcell Placencia
- User Story #9:
 - Marcell Placencia
 - Christian Colon
 -
- User Story #10:
 - Zeyon Charles

- Ulyana Clarke
 - Marcell Placencia
- User Story #13:
 - Marcell Placencia
 - Zeyon Charles
 -
- User Story #14:
 - Ulyana Clarke
 - Christian Colon
 -
- User Story #15:
 - Ulyana Clarke
 - Christian Colon
 -

Daily Scrum Meeting Minutes

Date: 02/09/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 02/10/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 02/11/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 02/12/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30P.M.

End time: 7:45 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 02/13/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

- What took place in the meeting?
 - Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings

Daily Scrum Meeting Minutes

Date: 02/16/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings
- Discussed Showcase date and requirements
- Discussed poster deadlines and requirements
- Discussed video requirements

Backlog Meeting Minutes

Date: 02/16/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 06:00 P.M.

End time: 07:00 P.M.

These user stories have been previously completed:

- User Story #1: **Password Customization**
 - How this should be reflected on the user story definition:
 - Test compatibility of special characters on different websites.
 - Ensure password generator never generates a password with only one character type.
 - Make the GUI for password customization more user friendly
- User Story #2: **Create a user GUI**
 - How this should be reflected on the user story definition:
 - Ensures an easy way for users to navigate the web app.
- User Story #3: **Password Strength Meter**
 - How this should be reflected on the user story definition:
 - Gives the user feedback on how secure their password is.
- User Story #4: **Personalized Password**
 - How this should be reflected on the user story definition:
 - Allows the user to use specific words that they may want to appear in the generated password
- User Story #5: **Single Click**
 - How this should be reflected on the user story definition:
 - Ensures that the users password gets copied to their clipboard if desired.
- User Story #11: **Database Infrastructure**
 - How this should be reflected on the user story definition:
 - An infrastructure so that we can build and deploy features that depend on data persistence

- User Story #6: **Regenerate/Undo Last Password**
 - How this should be reflected on the user story definition:
 - If a user performs a mis-click unintentionally and wants to use an old, generated password, they can conveniently regain the password by the click of a button
- User Story #13: **Sleek UI**
 - How this should be reflected on the user story definition:
 - Modern minimalistic design
 - Appealing to the eye & user friendly

The following user stories are still in progress:

- User Story #7: **Password History**
 - How this should be reflected on the user story definition:
 - Allows the user to save passwords natively within the program
 - Locally save passwords for maximum security
- User Story #9: **Password Expiration**
 - How this should be reflected on the user story definition:
 - Allows users to specify a time period
 - Alerts user when the time period expires
 - Shows which passwords will expire soon
- User Story #10: **Password Cross-Check**
 - How this should be reflected on the user story definition:
 - Checks User's generated password with previously saved passwords to check if its already used, if used, prompts user with the option to either keep or disregard generated password
- User Story #14: **Offline Functionality**
 - As a user, I want the password generator to work without an internet connection so that my data remains secure and private.
 - Ensure no external API calls are required for generation
 - Verify passwords can still be created offline
- User Story #15: **Password File Encryption**
 - How this should be reflected on the user story definition:
 - Allows the user to export their saved passwords as an encrypted file (e.g., .enc or encrypted .json)

- Requires the user to set a decryption passphrase at the time of export
- Ensures the exported file cannot be read by any external application without the correct passphrase

In the next few days, we plan to:

- Continue to work on the unfinished user stories
- Research new user stories

Daily Scrum Meeting Minutes

Date: 02/17/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings
- Discussed Showcase date and requirements
- Discussed poster deadlines and requirements
- Discussed video requirements

Daily Scrum Meeting Minutes

Date: 02/18/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings
- Discussed Showcase requirements
- Discussed poster requirements
- Discussed video requirements

Daily Scrum Meeting Minutes

Date: 02/19/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings
- Discussed Showcase requirements
- Discussed poster requirements
- Discussed video requirements
- Discussed being off next week for break

Daily Scrum Meeting Minutes

Date: 02/20/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 5:30P.M.

End time: 6:30 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
 - Researching user stories
 - Implementing and testing current user stories and features
 - Discussed upcoming meetings
- Discussed Showcase requirements
- Discussed poster requirements
- Discussed video requirements
- Discussed being off next week for break

Sprint Review Meeting Minutes

Date: 02/22/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30 P.M.

End time: 8:00 P.M.

These user stories have been completed:

- User Story #1: **Password Customization**
 - How this should be reflected on the user story definition:
 - Test compatibility of special characters on different websites.
 - Ensure password generator never generates a password with only one character type.
 - Make the GUI for password customization more user friendly
- User Story #2: **Create a user GUI**
 - How this should be reflected on the user story definition:
 - Ensures an easy way for users to navigate the web app.
- User Story #3: **Password Strength Meter**
 - How this should be reflected on the user story definition:
 - Gives the user feedback on how secure their password is.
- User Story #4: **Personalized Password**
 - How this should be reflected on the user story definition:
 - Allows the user to use specific words that they may want to appear in the generated password
- User Story #5: **Single Click**
 - How this should be reflected on the user story definition:
 - Ensures that the users password gets copied to their clipboard if desired.
- User Story #11: **Database Infrastructure**
 - How this should be reflected on the user story definition:
 - An infrastructure so that we can build and deploy features that depend on data persistence

- User Story #6: **Regenerate/Undo Last Password**
 - How this should be reflected on the user story definition:
 - If a user performs a mis-click unintentionally and wants to use an old, generated password, they can conveniently regain the password by the click of a button
- User Story #13: **Sleek UI**
 - How this should be reflected on the user story definition:
 - Modern minimalistic design
 - Appealing to the eye & user friendly

The following user stories are still in progress:

- User Story #7: **Password History**
 - How this should be reflected on the user story definition:
 - Allows the user to save passwords natively within the program
 - Locally save passwords for maximum security
- User Story #15: **Password File Encryption**
 - How this should be reflected on the user story definition:
 - Allows the user to export their saved passwords as an encrypted file (e.g., .enc or encrypted .json)
 - Requires the user to set a decryption passphrase at the time of export
 - Ensures the exported file cannot be read by any external application without the correct passphrase

The following ones were rejected and moved back to the product backlog to be assigned to a future sprint at a future Spring Planning meeting.

- User Story #9: **Password Expiration**
 - How this should be reflected on the user story definition:
 - Allows users to specify a time period
 - Alerts user when the time period expires
 - Shows which passwords will expire soon
- User Story #10: **Password Cross-Check**
 - How this should be reflected on the user story definition:
 - Checks User's generated password with previously saved passwords to check if its already used, if used, prompts user with the option to either keep or disregard generated password
- User Story #12: **Password Update Reminders**
 - How this should be reflected on the user story definition:
 - User receives notification when passwords are older than recommended period (90 days)
 - User can mark passwords as updated or generate new ones from notification
- User Story #9: **Password Expiration**
 - How this should be reflected on the user story definition:
 - Allows users to specify a time period
 - Alerts user when the time period expires
 - Shows which passwords will expire soon
- User Story #14: **Offline Functionality**
 - As a user, I want the password generator to work without an internet connection so that my data remains secure and private.
 - Ensure no external API calls are required for generation
 - Verify passwords can still be created offline

Sprint Retrospective Meeting Minutes

Date: 02/22/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30 P.M.

End time: 8:00 P.M.

What went wrong?

- Did we do a good job estimating our team's velocity?
 - Our team's velocity estimation for this sprint requires refinement. There are a few user stories that are taking longer than expected to complete.
- Did we do a good job estimating the points (time required) for each user story?
 - The story point estimates for individual user stories did not fully capture the complexity and time requirements of the work. Several stories are taking longer than expected due to their complexity. Moving forward, we should consider that all user stories are not going to be easy to implement.
- Did each team member work as scheduled?
 - Yes, each team member worked as scheduled, allowing for the completion of the planned sprint scope.

What went right?

- The team collaborated effectively. We shared different ideas which will contribute to a better product.
- The program has been looking better as we have worked on it more.

How to address the issues in the next sprint?

Due to the combination of underestimated technical dependencies and the resulting capacity constraints, several user stories were unable to be completed within the two-week sprint timeline and have been moved to the next sprint.

- How to improve the process?
 - To improve the process, we can have more communication throughout our daily sprint meetings.
- How to improve the product?
 - To improve the product, we can implement more user stories to further build the project.
 - We can work on the design of the product so that users can efficiently use our program.

Sprint 4 Planning Meeting Minutes:

Date: 03/02/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00 P.M.

End time: 9:00 P.M.

The following user stories were previously accepted and completed by the product owners and members:

1. **User Story #1:** Password Customization
2. **User Story #2:** Create a user GUI
3. **User Story #3:** Password Strength Meter
4. **User Story #4:** Personalized Password
5. **User Story #5:** Single Click Copy
6. **User Story #6:** Regenerate/Undo Last Password
7. **User Story #8:** Password Breach Check
8. **User Story #11:** Database Infrastructure
9. **User Story #13:** Sleek UI

After discussion and Sprint 3 retrospective review, the velocity of the team was estimated to be **6 out of 8**.

The team acknowledges that Sprint 3 revealed gaps in our implementation (breach check function exists but is not integrated; database marked complete but not implemented). Sprint 4 focuses on closing critical gaps, strengthening security features to align with the Capstone II rubric's emphasis on threat modeling and controls (O6), and improving testing coverage (O3).

The product owner chose the following user stories to be tried during this sprint. They are prioritized to address critical security gaps and rubric requirements:

The following user stories are still in progress from the previous sprint:

- User Story #7: **Password History**

- How this should be reflected on the user story definition:
 - Allows the user to save passwords natively within the program
 - Locally save passwords for maximum security

The product owner chose the following user stories to be tried during this sprint. They are prioritized to address critical security gaps and Capstone rubric requirements:

HIGH PRIORITY (Must Complete):

1. **User Story #16: Breach Check Integration (2 points)**
 1. How this should be reflected in the user story definition:
 1. Display breach status after password generation using existing checkBreach() function
 2. Visual indicator ( Secure /  Found in Breach /  API Error)
 3. Option to toggle auto-check on/off for offline use
 4. Response time < 3 seconds with timeout handling
 5. **Technical Note:** checkBreach() already exists but is never called
2. **User Story #17: Database Implementation (5 points)**
 1. How this should be reflected in the user story definition:
 1. SQLite database with encrypted password table
 2. CRUD operations (Create, Read, Update, Delete) for password entries
 3. Schema: id, service_name, username, encrypted_password, created_date, last_modified, notes
 4. Database file in user home directory with restricted permissions (chmod 600)
 5. Error handling and connection pooling
 6. **Technical Note:** pyodbc imported but unused; implement with SQLite + sqlcipher for encryption
 7. **Security Impact:** HIGH - Addresses O5 (Privacy), O6 (Assurance)

MEDIUM PRIORITY (Strong Recommended):

3. **User Story #18: Master Password Authentication (8 points)**
 1. How this should be reflected in the user story definition:
 1. Master password setup on first launch
 2. PBKDF2/Argon2 key derivation with 100,000+ iterations
 3. Failed attempt lockout (5 attempts → 30-minute cooldown)
 4. No plaintext storage of master password
 5. Session timeout after 15 minutes of inactivity
 6. **Dependencies:** User Story #17
 7. **Security Impact:** CRITICAL - Addresses O6 (Controls & Assurance)

4. **User Story #19: Automated Test Suite (8 points)**
 1. How this should be reflected in the user story definition:
 1. Unit tests for password generation logic ($\geq 90\%$ coverage)
 2. Unit tests for strength calculation algorithm
 3. Unit tests for breach check with mocked API responses
 4. Integration tests for database CRUD operations
 5. pytest framework with coverage reporting
 6. CI/CD pipeline configuration (GitHub Actions)
 7. **Testing Impact:** CRITICAL - Addresses O3 (Experimentation, Testing & Evaluation)

STRETCH GOALS (If Time Permits):

1. **User Story #15: Encrypted Password Export/Import (5 points)**
 1. How this should be reflected in the user story definition:
 1. Export saved passwords as AES-256 encrypted JSON file
 2. User sets export passphrase (minimum 12 characters)
 3. Import validates passphrase before decrypting
 4. File includes integrity hash (HMAC-SHA256)
 5. Clear error messages for wrong passphrase or corrupted files
 6. **Dependencies:** User Story #17
 7. **Note:** Completes in-progress User Story #15 from Sprint 3
 8. **Security Impact:** HIGH - Addresses O5 (Security/Privacy)
2. **User Story #20: NIST Password Compliance Checker (5 points)**
 1. How this should be reflected in the user story definition:
 1. Check against NIST SP 800-63B requirements
 2. Validate minimum length, no dictionary words, no sequential/keyboard patterns
 3. Display compliance score and specific violations
 4. Option to auto-generate NIST-compliant passwords
 5. **Security Impact:** MEDIUM - Addresses O5 (Compliance), O6 (Standards mapping)

The team members indicated their willingness to work on the following user stories.

- User Story #7:
 - Ulyana Clarke
 - Christian Colon
 - Marcell Placencia
- User Story #15:

- Ulyana Clarke
- Christian Colon
- Zeyon Charles
- User Story #16:
 - Christian Colon
 - Ulyana Clarke
 - Marcell Placencia
- User Story #17:
 - Marcell Placencia
 - Christian Colon
 - Zeyon Charles
- User Story #18:
 - Ulyana Clarke
 - Christian Colon
 - Marcell Placencia
 - Zeyon Charles
- User Story #19:
 - Ulyana Clarke
 - Christian Colon
 - Marcell Placencia
 - Zeyon Charles
- User Story #20:
 - Marcell Placencia
 - Zeyon Charles

Sprint 4 Focus Areas:

1. Close critical technical gaps (breach check integration, database implementation)
2. Strengthen security posture to meet Capstone II rubric requirements (O6: Threat Modeling, Risk & Assurance)
3. Establish comprehensive testing framework (O3: Experimentation, Testing & Evaluation)
4. Begin documentation of security controls and threat model for final deliverables
5. Total estimated points: 7-14 depending on completion (HIGH: 7 pts, MEDIUM: 16 pts, STRETCH: 14 pts)

Next Sprint Planning Meeting: 03/16/2026

Sprint 4 Review Meeting: 03/15/2026

Sprint 4 Retrospective Meeting: 03/15/2026

Daily Scrum Meeting Minutes

Date: 03/2/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 9:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
- Researching user stories
- Implementing and testing current user stories and features
- Created a priority list of user stories that need to be completed in this sprint, which were arranged from high to low priority.

Daily Scrum Meeting Minutes

Date: 03/03/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
- Researching user stories
- Implementing and testing current user stories and features
- Created a priority list of user stories that need to be completed in this sprint, which were arranged from high to low priority.
- Discussed upcoming deadlines
- Discussed being more communicative as a team
- Discussed Capstone 2 rubric guidelines

Daily Scrum Meeting Minutes

Date: 03/04/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
- Researching user stories
- Implementing and testing current user stories and features
- Discussed upcoming deadlines
- Discussed Capstone 2 rubric guidelines
- Shared documentation template

Daily Scrum Meeting Minutes

Date: 03/05/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
- Researching user stories
- Implementing and testing current user stories and features
- Discussed upcoming deadlines
- Discussed Capstone 2 rubric guidelines
- Shared documentation template
- Discussed poster updates

Daily Scrum Meeting Minutes

Date: 03/06/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
- Researching user stories
- Implementing and testing current user stories and features
- Discussed upcoming deadlines
- Discussed Capstone 2 rubric guidelines
- Shared documentation template
- Discussed poster updates
-

Daily Scrum Meeting Minutes

Date: 03/09/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
- Researching user stories
- Implementing and testing current user stories and features
- Discussed upcoming deadlines
- Discussed Capstone 2 rubric guidelines
- Discussed poster updates

Backlog Meeting Minutes

Date: 03/09/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 07:00 P.M.

End time: 08:00 P.M.

These user stories have been previously completed:

6. **User Story #1:** Password Customization
7. **User Story #2:** Create a user GUI
8. **User Story #3:** Password Strength Meter
9. **User Story #4:** Personalized Password
10. **User Story #5:** Single Click Copy
11. **User Story #6:** Regenerate/Undo Last Password
12. **User Story #8:** Password Breach Check
13. **User Story #11:** Database Infrastructure
14. **User Story #13:** Sleek UI

The following user stories are still in progress:

15. **User Story #16:** Breach Check Integration
16. **User Story #17:** Database Implementation
17. **User Story #18:** Master Password Authentication
18. **User Story #19:** Automated Test Suite
19. **User Story #15:** Encrypted Password Export/Import
20. **User Story #20:** NIST Password Compliance Checker

In the next few days, we plan to:

- **Add User Story #14: Offline Functionality**
 - As a user, I want the password generator to work without an internet connection so that my data remains secure and private.
 - Ensure no external API calls are required for generation
 - Verify passwords can still be created offline
 - Continue to work on the unfinished user stories
 - Research new user stories

Daily Scrum Meeting Minutes

Date: 03/10/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
- Researching user stories
- Implementing and testing current user stories and features
- Discussed upcoming deadlines
- Discussed Capstone 2 rubric guidelines
- Discussed poster updates

Daily Scrum Meeting Minutes

Date: 03/11/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30P.M.

End time: 7:30 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
- Researching user stories
- Implementing and testing current user stories and features
- Discussed upcoming deadlines
- Discussed Capstone 2 rubric guidelines
- Discussed poster updates

Daily Scrum Meeting Minutes

Date: 03/12/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30P.M.

End time: 7:00 P.M.

Christian Daniel Colon, Marcell Placencia, Zeyon Aaron Charles, Ulyana Isabella Clarke:

What took place in the meeting?

- Working with team members on features
- Researching user stories
- Implementing and testing current user stories and features
- Discussed upcoming deadlines
- Discussed Capstone 2 rubric guidelines
- Discussed poster updates

We plan to continue to work on user stories until the end of March and then focus on creating our demo videos and finalizing the poster at the beginning of April.

Poster deadline is **April 13**

Video deadline is **April 15**

Sprint Review Meeting Minutes

Date: 03/15/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00 P.M.

End time: 7:30 P.M.

These user stories have been completed:

- **User Story #1:** Password Customization
- **User Story #2:** Create a user GUI
- **User Story #3:** Password Strength Meter
- **User Story #4:** Personalized Password
- **User Story #5:** Single Click Copy
- **User Story #6:** Regenerate/Undo Last Password
- **User Story #8:** Password Breach Check
- **User Story #11:** Database Infrastructure
- **User Story #13:** Sleek UI
- **User Story #16:** Breach Check Integration

The following user stories are still in progress:

1. **User Story #7:** Password History
 1. How this should be reflected on the user story definition:
 1. Allows the user to save passwords natively within the program
 2. Locally save passwords for maximum security
2. **User Story #17:** Database Implementation (HIGH PRIORITY)
 1. How this should be reflected in the user story definition:
 1. MSSQL database with encrypted password table
 2. CRUD operations (Create, Read, Update, Delete) for password entries
 3. Schema: id, service_name, username, encrypted_password, created_date, last_modified, notes
 4. Database file in user home directory with restricted permissions (chmod 600)
 5. Error handling and connection pooling
 6. **Technical Note:** pyodbc imported but unused; implement with MSSQL sqlcipher for encryption
 7. **Security Impact:** HIGH - Addresses O5 (Privacy), O6 (Assurance)

3. **User Story #18: Master Password Authentication (MEDIUM PRIORITY)**
 1. How this should be reflected in the user story definition:
 1. Master password setup on first launch
 2. PBKDF2/Argon2 key derivation with 100,000+ iterations
 3. Failed attempt lockout (5 attempts → 30-minute cooldown)
 4. No plaintext storage of master password
 5. Session timeout after 15 minutes of inactivity
 6. **Dependencies:** User Story #17
 7. **Security Impact:** CRITICAL - Addresses O6 (Controls & Assurance)
4. **User Story #19: Automated Test Suite (MEDIUM PRIORITY)**
 1. How this should be reflected in the user story definition:
 1. Unit tests for password generation logic (≥90% coverage)
 2. Unit tests for strength calculation algorithm
 3. Unit tests for breach check with mocked API responses
 4. Integration tests for database CRUD operations
 5. pytest framework with coverage reporting
 6. CI/CD pipeline configuration (GitHub Actions)
 7. **Testing Impact:** CRITICAL - Addresses O3 (Experimentation, Testing & Evaluation)

Our stretch goals were not met however we are still planning to attempt them in the next sprint.

Stretch Goals:

1. **User Story #15: Encrypted Password Export/Import (5 points)**
 1. How this should be reflected in the user story definition:
 1. Export saved passwords as AES-256 encrypted JSON file
 2. User sets export passphrase (minimum 12 characters)
 3. Import validates passphrase before decrypting
 4. File includes integrity hash (HMAC-SHA256)
 5. Clear error messages for wrong passphrase or corrupted files
 6. **Dependencies:** User Story #17
 7. **Note:** Completes in-progress User Story #15 from Sprint 3
 8. **Security Impact:** HIGH - Addresses O5 (Security/Privacy)
2. **User Story #20: NIST Password Compliance Checker (5 points)**
 1. How this should be reflected in the user story definition:
 1. Check against NIST SP 800-63B requirements
 2. Validate minimum length, no dictionary words, no sequential/keyboard patterns
 3. Display compliance score and specific violations
 4. Option to auto-generate NIST-compliant passwords

5. **Security Impact:** MEDIUM - Addresses O5 (Compliance), O6 (Standards mapping)

Sprint Retrospective Meeting Minutes

Date: 03/15/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00 P.M.

End time: 7:30 P.M.

What went wrong?

Did we do a good job estimating our team's velocity?

The team estimated a velocity of 6 out of 8 points for Sprint 4. While this estimate was more calibrated than previous sprints, the scope of the high-priority stories (particularly User Story #17: Database Implementation and User Story #18: Master Password Authentication) proved more technically complex than anticipated. No user stories were accepted as complete by the end of this sprint. Moving forward, velocity estimates should factor in the compounding complexity of security-dependent features.

Did we do a good job estimating the points (time required) for each user story?

The point estimates for individual user stories did not fully account for the interdependencies between them. User Stories #17, #18, and #15 are sequentially dependent, which created a bottleneck. The team underestimated the setup overhead for the automated testing environment (User Story #19), particularly configuring GitHub Actions and achieving meaningful coverage targets. Future estimations should explicitly account for dependency chains.

Did each team member work as scheduled?

Each team member engaged with their assigned user stories. Attendance and participation at daily scrums were consistent. The team acknowledges that end-of-semester commitments from other coursework created some capacity constraints mid-sprint, which slightly impacted progress velocity.

What went right?

- The team demonstrated improved transparency by acknowledging the sprint three gaps at the start of spring for planning and prioritizing remediation.
- Technical architecture decisions were made deliberately.
- The team has a clear, shared understanding of the remaining development timeline and what must be completed before transitioning to documentation and video production.

How to Improve?

- Complete User Story #17 (Database Implementation) before any other dependent stories, as #18 and #15 are blocked until it is functional.
- Ensure all security controls (master password, encryption, breach check) are demonstrable end-to-end before the video demo recording date.
- Begin the threat model document and NIST controls mapping now, even before all features are complete, so documentation is not a bottleneck near the deadline.

Transition Plan:

The team agreed on the following milestone schedule to ensure a quality final submission:

- End of March 2026: All in-progress user stories finalized and code tested
- Early April 2026: Begin project documentation (following CY_Project_Documentation_Template_2025)
- Executive Summary, Threat Model, Risk Analysis, Testing & Evaluation sections
- Security controls documentation aligned to O5 and O6 rubric outcomes
- Record Introduction Video and Demo Video
- Final days: Poster, Presentation preparation
- Final days: Poster, Presentation preparation

Sprint 5 Planning Meeting Minutes:

Date: 03/16/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00 P.M.

End time: 8:00 P.M.

The following user stories were previously accepted and completed by the product owners and members:

3. **User Story #1:** Password Customization
4. **User Story #2:** Create a user GUI
5. **User Story #3:** Password Strength Meter
6. **User Story #4:** Personalized Password
7. **User Story #5:** Single Click Copy
8. **User Story #6:** Regenerate/Undo Last Password
9. **User Story #8:** Password Breach Check
10. **User Story #11:** Database Infrastructure
11. **User Story #13:** Sleek UI
12. **User Story #16:** Breach Check Integration

After discussion and Sprint 4 retrospective review, the velocity of the team was estimated to be **6 out of 8**.

We are still focusing on completing user story #18 Master Password Authentication and #17 Database implementation. Both are critical sections in this sprint. The database will store critical data, which is why we want to implement a form of authentication for security purposes. Other user stories also rely on the use of a database, which is why it is considered a high priority to complete.

The following user stories are still in progress from the previous sprint and have been selected by the product owner to continue development in the current sprint. They are prioritized to address critical security gaps and Capstone rubric requirements:

13. **User Story #17: Database Implementation (HIGH PRIORITY) (5 points)**
 1. How this should be reflected in the user story definition:
 1. MSSQL database with encrypted password table
 2. CRUD operations (Create, Read, Update, Delete) for password entries
 3. Schema: id, service_name, username, encrypted_password, created_date, last_modified, notes
 4. Database file in user home directory with restricted permissions (chmod 600)
 5. Error handling and connection pooling
 6. **Technical Note:** pyodbc imported but unused; implement with MSSQL sqlcipher for encryption
 7. **Security Impact:** HIGH - Addresses O5 (Privacy), O6 (Assurance)

14. **User Story #18: Master Password Authentication (HIGH PRIORITY) (8 points)**
 1. How this should be reflected in the user story definition:
 1. Master password setup on first launch
 2. PBKDF2/Argon2 key derivation with 100,000+ iterations
 3. Failed attempt lockout (5 attempts → 30-minute cooldown)
 4. No plaintext storage of master password
 5. Session timeout after 15 minutes of inactivity
 6. **Dependencies:** User Story #17
 7. **Security Impact:** CRITICAL - Addresses O6 (Controls & Assurance)

15. **User Story #19: Automated Test Suite (MEDIUM PRIORITY) (8 points)**
 1. How this should be reflected in the user story definition:
 1. Unit tests for password generation logic (≥90% coverage)
 2. Unit tests for strength calculation algorithm
 3. Unit tests for breach check with mocked API responses
 4. Integration tests for database CRUD operations
 5. pytest framework with coverage reporting
 6. CI/CD pipeline configuration (GitHub Actions)
 7. **Testing Impact:** CRITICAL - Addresses O3 (Experimentation, Testing & Evaluation)

1. **User Story #15: Encrypted Password Export/Import (Stretch Goals / Low Priority) (5 points)**
 1. How this should be reflected in the user story definition:
 1. Export saved passwords as AES-256 encrypted JSON file
 2. User sets export passphrase (minimum 12 characters)
 3. Import validates passphrase before decrypting
 4. File includes integrity hash (HMAC-SHA256)
 5. Clear error messages for wrong passphrase or corrupted files
 6. **Dependencies:** User Story #17
 7. **Note:** Completes in-progress User Story #15 from Sprint 3

8. **Security Impact:** HIGH - Addresses O5 (Security/Privacy)
2. **User Story #20:** NIST Password Compliance Checker (Stretch Goals / Low Priority) (5 points)
 1. How this should be reflected in the user story definition:
 1. Check against NIST SP 800-63B requirements
 2. Validate minimum length, no dictionary words, no sequential/keyboard patterns
 3. Display compliance score and specific violations
 4. Option to auto-generate NIST-compliant passwords
 5. **Security Impact:** MEDIUM - Addresses O5 (Compliance), O6 (Standards mapping)
3. User Story #7: **Password History** (Stretch Goals / Low Priority) (4 points)
 1. How this should be reflected on the user story definition:
 1. Allows the user to save passwords natively within the program
 2. Locally save passwords for maximum security

The team members indicated their willingness to work on the following user stories.

- User Story #7:
 - Zeyon Charles
 - Christian Colon
 - Marcell Placencia
- User Story #15:
 - Christian Colon
 - Zeyon Charles
 - Ulyana Clarke
- User Story #17:
 - Marcell Placencia
 - Christian Colon
 - Ulyana Clarke
- User Story #18:
 - Christian Colon
 - Marcell Placencia
 - Ulyana Clarke
- User Story #19:
 - Ulyana Clarke
 - Christian Colon
 - Marcell Placencia

- Zeyon Charles
- User Story #20:
 - Marcell Placencia
 - Zeyon Charles

Sprint 5 Focus Areas:

- Implement a functional Database
- Close critical technical gaps (breach check integration, database implementation)
- Strengthen security posture to meet Capstone II rubric requirements (O6: Threat Modeling, Risk & Assurance)
- Establish comprehensive testing framework (O3: Experimentation, Testing & Evaluation)
- Begin documentation of security controls and threat model for final deliverables
- Total estimated points: 35 depending on completion (HIGH: 13 pts, MEDIUM: 8 pts, STRETCH: 14 pts)

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 5, Day: 1

Date: 03/16/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked on our Planning Meeting
- Worked with team members on features
- Implementing and testing current features
- Implementing database
- Discussed upcoming deadlines
- Discussed Capstone 2 rubric guidelines
- Discussed poster updates

We are still focusing on completing user story #17 Database implementation and #18 Master Password Authentication. Both are critical sections in this sprint. The database

will store critical data, which is why we want to implement a form of authentication for security purposes. Other user stories also rely on the use of a database, which is why it is considered a high priority to complete.

We plan to continue to work on user stories until the end of March and then focus on creating our demo videos and finalizing the poster at the beginning of April.

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Daily Scrum Meeting Minutes

Sprint: 5, Day: 2

Date: 03/17/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Discussed Capstone 2 rubric guidelines
- Discussed poster updates

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Daily Scrum Meeting Minutes

Sprint: 5, Day: 3

Date: 03/18/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30P.M.

End time: 7:30 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Discussed poster updates

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Daily Scrum Meeting Minutes

Sprint: 5, Day: 4

Date: 03/19/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Discussed poster updates

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Daily Scrum Meeting Minutes

Sprint: 5, Day: 5

Date: 03/20/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Discussed poster updates

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Daily Scrum Meeting Minutes

Sprint: 5, Day: 8

Date: 03/23/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Discussed poster updates
- Updated backlog

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Backlog Meeting Minutes

Date: 03/23/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 07:00 P.M.

End time: 08:00 P.M.

These user stories have been previously completed:

4. **User Story #1:** Password Customization
5. **User Story #2:** Create a user GUI
6. **User Story #3:** Password Strength Meter
7. **User Story #4:** Personalized Password
8. **User Story #5:** Single Click Copy
9. **User Story #6:** Regenerate/Undo Last Password
10. **User Story #8:** Password Breach Check
11. **User Story #11:** Database Infrastructure
12. **User Story #13:** Sleek UI
13. **User Story #16:** Breach Check Integration
- 14.

The following user stories are still in progress:

15. **User Story #17:** Database Implementation
16. **User Story #18:** Master Password Authentication
17. **User Story #19:** Automated Test Suite
18. **User Story #15:** Encrypted Password Export/Import
19. **User Story #20:** NIST Password Compliance Checker

In the next few days, we plan to:

- Continue to work on the unfinished user stories
- Research new user stories

Daily Scrum Meeting Minutes

Sprint: 5, Day: 9

Date: 03/24/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Daily Scrum Meeting Minutes

Sprint: 5, Day: 10

Date: 03/25/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Daily Scrum Meeting Minutes

Sprint: 5, Day: 11

Date: 03/26/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Daily Scrum Meeting Minutes

Sprint: 5, Day: 13

Date: 03/28/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 5:00P.M.

End time: 6:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines

Key Dates

Event	Date
Sprint 5 Review Meeting	03/29/2026
Sprint 5 Retrospective	03/29/2026
Next Sprint Planning	03/30/2026
Poster Deadline	April 13, 2026
Demo Video Deadline	April 15, 2026

Sprint Review Meeting Minutes

Date: 03/29/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:15 P.M.

End time: 9:15 P.M.

These user stories have been completed:

- **User Story #1:** Password Customization
- **User Story #2:** Create a user GUI
- **User Story #3:** Password Strength Meter
- **User Story #4:** Personalized Password
- **User Story #5:** Single Click Copy
- **User Story #6:** Regenerate/Undo Last Password
- **User Story #8:** Password Breach Check
- **User Story #11:** Database Infrastructure
- **User Story #13:** Sleek UI
- **User Story #16:** Breach Check Integration

The following user stories are still in progress:

20. **User Story #7:** Password History

1. How this should be reflected on the user story definition:
 1. Allows the user to save passwords natively within the program
 2. Locally save passwords for maximum security

- **User Story #17:** Database Implementation (HIGH PRIORITY)
 - How this should be reflected in the user story definition:
 - MSSQL database with encrypted password table
 - CRUD operations (Create, Read, Update, Delete) for password entries
 - Schema: id, service_name, username, encrypted_password, created_date, last_modified, notes
 - Database file in user home directory with restricted permissions (chmod 600)
 - Error handling and connection pooling
 - **Technical Note:** pyodbc imported but unused; implement with MSSQL sqlcipher for encryption
 - **Security Impact:** HIGH - Addresses O5 (Privacy), O6 (Assurance)

- **User Story #18: Master Password Authentication (MEDIUM PRIORITY)**
 - How this should be reflected in the user story definition:
 - Master password setup on first launch
 - PBKDF2/Argon2 key derivation with 100,000+ iterations
 - Failed attempt lockout (5 attempts → 30-minute cooldown)
 - No plaintext storage of master password
 - Session timeout after 15 minutes of inactivity
 - **Dependencies:** User Story #17
 - **Security Impact:** CRITICAL - Addresses O6 (Controls & Assurance)
- **User Story #19: Automated Test Suite (MEDIUM PRIORITY)**
 - How this should be reflected in the user story definition:
 - Unit tests for password generation logic (≥90% coverage)
 - Unit tests for strength calculation algorithm
 - Unit tests for breach check with mocked API responses
 - Integration tests for database CRUD operations
 - pytest framework with coverage reporting
 - CI/CD pipeline configuration (GitHub Actions)
 - **Testing Impact:** CRITICAL - Addresses O3 (Experimentation, Testing & Evaluation)

Our stretch goals were not met however we are still planning to attempt them in the next sprint.

Stretch Goals:

- **User Story #15: Encrypted Password Export/Import (5 points)**
 - How this should be reflected in the user story definition:
 - Export saved passwords as AES-256 encrypted JSON file
 - User sets export passphrase (minimum 12 characters)
 - Import validates passphrase before decrypting
 - File includes integrity hash (HMAC-SHA256)
 - Clear error messages for wrong passphrase or corrupted files
 - **Dependencies:** User Story #17
 - **Note:** Completes in-progress User Story #15 from Sprint 3
 - **Security Impact:** HIGH - Addresses O5 (Security/Privacy)
- **User Story #20: NIST Password Compliance Checker (5 points)**
 - How this should be reflected in the user story definition:
 - Check against NIST SP 800-63B requirements
 - Validate minimum length, no dictionary words, no sequential/keyboard patterns
 - Display compliance score and specific violations

- Option to auto-generate NIST-compliant passwords
- **Security Impact:** MEDIUM - Addresses O5 (Compliance), O6 (Standards mapping)

Sprint Retrospective Meeting Minutes

Date: 03/29/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:15 P.M.

End time: 9:15 P.M.

Key Challenges Identified

Did we do a good job estimating our team's velocity?

The team projected velocity for Sprint 5 will be continuing into the next sprint. The scope of the high-priority stories (particularly User Story #17: Database Implementation and User Story #18: Master Password Authentication) introduced greater technical complexity than initially expected. By the end of the sprint, no user stories met the criteria for completion and stories are still in progress.

How accurate were our time and effort estimates for each user story?

The point estimates for individual user stories did not fully account for the dependencies between tasks. User Stories #17, #18, and #15 are sequentially dependent. Future planning should more explicitly incorporate dependency chains and sequencing constraints.

Did team members meet expected participation and contribution levels?

Each team member has been actively working towards user stories and project documentation. Attendance and participation at daily scrums were consistent. The team acknowledges that end-of-semester commitments from other coursework created some capacity constraints mid-sprint, which had a minor impact on overall sprint velocity.

Key Successes and Strengths

- The team showed increased transparency by acknowledging the sprint gaps at the start of sprint for planning and prioritizing remediation.
- Technical architecture decisions were made deliberately.

- The team has a clear, shared understanding of the remaining development timeline and what must be completed before transitioning to documentation and video production.

Action Items for Improvement

- Complete User Story #17 (Database Implementation) before any other dependent stories, as #18 and #15 are blocked until it is functional.
- Ensure all security controls (master password, encryption, breach check) are demonstrable end-to-end before the video demo recording date.
- Initiate the threat model document and NIST controls mapping now, even before all features are complete, so documentation is not a bottleneck near the deadline.

Next Steps and Transition Plan

The team established the following milestone timeline to ensure a high-quality final submission:

- End of March 2026: All in-progress user stories finalized and code tested
- Early April 2026: Begin project documentation (following CY_Project_Documentation_Template_2025)
- Executive Summary, Threat Model, Risk Analysis, Testing & Evaluation sections
- Security controls documentation aligned to O5 and O6 rubric outcomes
- Record Introduction Video and Demo Video
Final days: Poster, Presentation preparation
- Final days: Poster, Presentation preparation

Sprint 6 Planning Meeting Minutes:

Date: 03/30/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 5:30 P.M.

End time: 7:30 P.M.

The following user stories were previously accepted and completed by the product owners and members:

21. **User Story #1:** Password Customization
22. **User Story #2:** Create a user GUI
23. **User Story #3:** Password Strength Meter
24. **User Story #4:** Personalized Password
25. **User Story #5:** Single Click Copy
26. **User Story #6:** Regenerate/Undo Last Password
27. **User Story #8:** Password Breach Check
28. **User Story #11:** Database Infrastructure
29. **User Story #13:** Sleek UI
30. **User Story #16:** Breach Check Integration

After discussion and Sprint 5 retrospective review, the velocity of the team was estimated to be **0 out of 35**.

Completing user story #18 Master Password Authentication and #17 Database implementation are more difficult than initially anticipated. We are still working to complete our critical user stories. Both are critical sections in this sprint. The database will store critical data, which is why we want to implement a form of authentication for security purposes. Other user stories also rely on the use of a database, which is why it is considered a high priority to complete.

The following user stories are still in progress from the previous sprint and have been selected by the product owner to continue development in the current sprint. They are prioritized to address critical security gaps and Capstone rubric requirements:

31. **User Story #17:** Database Implementation (HIGH PRIORITY) (5 points)
1. How this should be reflected in the user story definition:
 1. MSSQL database with encrypted password table
 2. CRUD operations (Create, Read, Update, Delete) for password entries
 3. Schema: id, service_name, username, encrypted_password, created_date, last_modified, notes
 4. Database file in user home directory with restricted permissions (chmod 600)
 5. Error handling and connection pooling
 6. **Technical Note:** pyodbc imported but unused; implement with MSSQL sqlcipher for encryption
 7. **Security Impact:** HIGH - Addresses O5 (Privacy), O6 (Assurance)
32. **User Story #18:** Master Password Authentication (HIGH PRIORITY) (8 points)
1. How this should be reflected in the user story definition:
 1. Master password setup on first launch
 2. PBKDF2/Argon2 key derivation with 100,000+ iterations
 3. Failed attempt lockout (5 attempts → 30-minute cooldown)
 4. No plaintext storage of master password
 5. Session timeout after 15 minutes of inactivity
 6. **Dependencies:** User Story #17
 7. **Security Impact:** CRITICAL - Addresses O6 (Controls & Assurance)
33. **User Story #19:** Automated Test Suite (MEDIUM PRIORITY) (8 points)
1. How this should be reflected in the user story definition:
 1. Unit tests for password generation logic (≥90% coverage)
 2. Unit tests for strength calculation algorithm
 3. Unit tests for breach check with mocked API responses
 4. Integration tests for database CRUD operations
 5. pytest framework with coverage reporting
 6. CI/CD pipeline configuration (GitHub Actions)
 7. **Testing Impact:** CRITICAL - Addresses O3 (Experimentation, Testing & Evaluation)
- **User Story #15:** Encrypted Password Export/Import (Stretch Goals / Low Priority) (5 points)
- How this should be reflected in the user story definition:
 - Export saved passwords as AES-256 encrypted JSON file
 - User sets export passphrase (minimum 12 characters)
 - Import validates passphrase before decrypting
 - File includes integrity hash (HMAC-SHA256)
 - Clear error messages for wrong passphrase or corrupted files
 - **Dependencies:** User Story #17
 - **Note:** Completes in-progress User Story #15 from Sprint 3

- **Security Impact:** HIGH - Addresses O5 (Security/Privacy)
- **User Story #20:** NIST Password Compliance Checker (Stretch Goals / Low Priority) (5 points)
 - How this should be reflected in the user story definition:
 - Check against NIST SP 800-63B requirements
 - Validate minimum length, no dictionary words, no sequential/keyboard patterns
 - Display compliance score and specific violations
 - Option to auto-generate NIST-compliant passwords
 - **Security Impact:** MEDIUM - Addresses O5 (Compliance), O6 (Standards mapping)
- **User Story #7: Password History** (Stretch Goals / Low Priority) (4 points)
 - How this should be reflected on the user story definition:
 - Allows the user to save passwords natively within the program
 - Locally save passwords for maximum security

The team members indicated their willingness to work on the following user stories.

- User Story #7:
 - Zeyon Charles
 - Christian Colon
 - Marcell Placencia
- User Story #15:
 - Christian Colon
 - Zeyon Charles
 - Ulyana Clarke
- User Story #17:
 - Marcell Placencia
 - Christian Colon
 - Ulyana Clarke
- User Story #18:
 - Christian Colon
 - Marcell Placencia
 - Ulyana Clarke
- User Story #19:
 - Ulyana Clarke
 - Christian Colon
 - Marcell Placencia

- Zeyon Charles
- User Story #20:
 - Marcell Placencia
 - Zeyon Charles

Sprint 5 Focus Areas:

- Implement a functional Database
- Close critical technical gaps (breach check integration, database implementation)
- Strengthen security posture to meet Capstone II rubric requirements (O6: Threat Modeling, Risk & Assurance)
- Establish comprehensive testing framework (O3: Experimentation, Testing & Evaluation)
- Begin documentation of security controls and threat model for final deliverables
- Total estimated points: 35 depending on completion (HIGH: 13 pts, MEDIUM: 8 pts, STRETCH: 14 pts)

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Next Sprint Planning	04/13/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 6, Day: 1

Date: 03/30/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 5:30P.M.

End time: 7:30 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Held Sprint 6 planning

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Next Sprint Planning	04/13/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 6, Day: 2

Date: 03/31/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Discussed last development sprint

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Final Sprint Planning	04/13/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 6, Day: 3

Date: 04/01/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00P.M.

End time: 7:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Discussed last development sprint
- Working on US #17 and #18

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Final Presentation	04/17/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 6, Day: 4

Date: 04/02/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Discussed last development sprint
- Working on US #17 and #18

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Final Presentation	04/17/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 6, Day: 5

Date: 04/03/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 8:00P.M.

End time: 9:00 P.M.

Sprint 5 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes
- US #18: Master Password Authentication (8 pts) — PBKDF2/Argon2, lockout after 5 attempts, 15-min session timeout, no plaintext storage. Depends on #17.

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Discussed last development sprint
- Working on US #17 and #18

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Final Presentation	04/17/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 6, Day: 8

Date: 04/06/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 6 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- User story 18 has been completed

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Final Presentation	04/17/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Backlog Meeting Minutes

Date: 04/06/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 07:00 P.M.

End time: 08:00 P.M.

These user stories have been previously completed:

- 34. **User Story #1:** Password Customization
- 35. **User Story #2:** Create a user GUI
- 36. **User Story #3:** Password Strength Meter
- 37. **User Story #4:** Personalized Password
- 38. **User Story #5:** Single Click Copy
- 39. **User Story #6:** Regenerate/Undo Last Password
- 40. **User Story #8:** Password Breach Check
- 41. **User Story #11:** Database Infrastructure
- 42. **User Story #13:** Sleek UI
- 43. **User Story #16:** Breach Check Integration
- 44. **User Story #18:** Master Password Authentication

The following user stories are still in progress:

- 45. **User Story #17:** Database Implementation
- 46. **User Story #19:** Automated Test Suite
- 47. **User Story #15:** Encrypted Password Export/Import
- 48. **User Story #20:** NIST Password Compliance Checker

In the next few days, we plan to:

- Continue to work on the current user stories
- Prepare for demo
- Finish coding by end of the week

Daily Scrum Meeting Minutes

Sprint: 6, Day: 9

Date: 04/07/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00P.M.

End time: 7:00 P.M.

Sprint 6 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines and documentation
- Discussed video Requirements and when we can record
- Updating poster
- Working on project documentation

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Final Presentation	04/17/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 6, Day: 10

Date: 04/08/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 6 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Working on finishing high and medium priorities
- Creating script for introduction video

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Final Presentation	04/17/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 6, Day: 11

Date: 04/09/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:00 P.M.

Sprint 6 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Working on project documentation
- Working on finishing high and medium priorities
- Working on script for introduction video

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Final Presentation	04/17/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Daily Scrum Meeting Minutes

Sprint: 6, Day: 12

Date: 04/10/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00P.M.

End time: 8:15 P.M.

Sprint 6 Goals — Priority Overview

HIGH PRIORITY

- US #17: Database Implementation (5 pts) — MSSQL, CRUD, schema: id / service_name / username / encrypted_password / created_date / last_modified / notes

MEDIUM PRIORITY

- US #19: Automated Test Suite (8 pts) — pytest, ≥90% coverage on generation/strength/breach, integration tests for DB CRUD, GitHub Actions CI

STRETCH / LOW PRIORITY

- US #15: Encrypted Password Export/Import (5 pts) — AES-256 JSON, HMAC-SHA256 integrity, 12-char passphrase minimum. Depends on #17.
- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display
- US #7: Password History (4 pts) — local save, depends on #17

What took place in the meeting?

- Worked with team members on features
- Implementing and testing current features
- Discussed upcoming deadlines
- Working on project documentation
- Working on finishing high and medium priorities
- Working on script for introduction video
- Planning to record our intro video on Saturday Morning

Key Dates

Event	Date
Sprint 6 Review Meeting	04/10/2026
Sprint 6 Retrospective	04/1/2026
Final Presentation	04/17/2026
Poster Deadline	04/13/2026
Demo Video Deadline	04/15/2026

Sprint Review Meeting Minutes

Date: 04/12/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 3:00 P.M.

End time: 5:00 P.M.

These user stories have been completed:

- **User Story #1:** Password Customization
- **User Story #2:** Create a user GUI
- **User Story #3:** Password Strength Meter
- **User Story #4:** Personalized Password
- **User Story #5:** Single Click Copy
- **User Story #6:** Regenerate/Undo Last Password
- **User Story #7:** Password History
- **User Story #8:** Password Breach Check
- **User Story #11:** Database Infrastructure
- **User Story #13:** Sleek UI
- **User Story #15:** Encrypted Password Export/Import
- **User Story #16:** Breach Check Integration
- **User Story #17:** Database Implementation
- **User Story # 18:** Master Password Authentication
- **User Story #19:** Automated Test Suite

The following user stories are still in progress:

We complete our high and medium priority user stories. However, our stretch goals were not met. We are still planning to attempt them in the next sprint.

Stretch Goals:

- **User Story #20:** NIST Password Compliance Checker (5 points)
 - How this should be reflected in the user story definition:
 - Check against NIST SP 800-63B requirements
 - Validate minimum length, no dictionary words, no sequential/keyboard patterns
 - Display compliance score and specific violations
 - Option to auto-generate NIST-compliant passwords

- **Security Impact:** MEDIUM - Addresses O5 (Compliance), O6 (Standards mapping)

Sprint Retrospective Meeting Minutes

Date: 04/12/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 3:00 P.M.

End time: 5:00 P.M.

Key Challenges Identified

Did we do a good job estimating our team's velocity?

Sprint 6 represented the final development sprint before the capstone submission deadline. The team projected velocity is 30 out of 35. Most user stories targeted in this sprint were successfully completed — User Stories #17 (Database Implementation), #18 (Master Password Authentication), #19 (Automated Test Suite), #15 (Encrypted Password Export/Import), and #7 (Password History) were all brought to completion. User Story #20 (NIST Password Compliance Checker) remained incomplete due to its low priority designation and the team's focus on higher-priority, demo-critical deliverables.

How accurate were our time and effort estimates for each user story?

Our time and effort estimates across the project consistently underestimated the complexity of several user stories. User Stories #17 (Database Implementation), #18 (Master Password Authentication), #15 (Encrypted Password Export/Import), and #7 (Password History) each spanned multiple sprints before reaching completion. This pattern reflects a recurring gap between estimated and actual complexity, particularly for stories involving security-sensitive features with interdependencies. In hindsight, these stories should have been broken down into smaller, more granular tasks at the time of sprint planning to allow for more realistic point assignments and earlier detection of blockers.

Did team members meet expected participation and contribution levels?

Yes. All team members contributed actively to development, testing, and documentation tasks during this sprint. End-of-semester workloads from other courses created some pressure, but the team maintained consistent communication and participation throughout daily scrums.

Members covered for one another where needed to ensure critical stories were closed before the deadline.

Key Successes and Strengths

- The team showed increased transparency by acknowledging the sprint gaps at the start of sprint for planning and prioritizing remediation.
- Technical architecture decisions were made deliberately.
- The team successfully delivered the database implementation and master password authentication, the two highest-priority stories that were blocking progress on dependent features.
- Encrypted password export/import was completed, closing a long-standing in-progress story from Sprint 3.
- The team was able to create and record a presentation for an introduction video to the project.

Action Items for Improvement

- Finalize and review the threat model document and NIST controls mapping to ensure all O5 and O6 rubric outcomes are fully addressed in the project documentation.
- Ensure security features are demonstrable end-to-end for the video demo recording.
- User Story #20 (NIST Compliance Checker) remains in the product backlog and is designated as a stretch goal if time permits before the final submission deadline; it should not delay core documentation or demo work.

Next Steps and Transition Plan

The team established the following milestone timeline to ensure a high-quality final submission:

- April 13, 2026 @5pm: Poster submission deadline and next Sprint Planning
- April 13–15, 2026: Complete project documentation — Executive Summary, Threat Model, Risk Analysis, Testing & Evaluation, Security Controls (O5/O6 alignment)
- April 15, 2026: Demo Video deadline — record Introduction and Demo videos showcasing all completed features end-to-end
- Final days: Prepare and rehearse presentation; finalize poster layout and content

Sprint 7 Planning Meeting Minutes:

Date: 04/13/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 12:00 P.M.

End time: 1:30 P.M.

The following user stories were previously accepted and completed by the product owners and members:

- 49. **User Story #1:** Password Customization
- 50. **User Story #2:** Create a user GUI
- 51. **User Story #3:** Password Strength Meter
- 52. **User Story #4:** Personalized Password
- 53. **User Story #5:** Single Click Copy
- 54. **User Story #6:** Regenerate/Undo Last Password
- 55. **User Story #7:** Password History
- 56. **User Story #8:** Password Breach Check
- 57. **User Story #11:** Database Infrastructure
- 58. **User Story #13:** Sleek UI
- 59. **User Story #15:** Encrypted Password Export/Import
- 60. **User Story #16:** Breach Check Integration
- 61. **User Story #17:** Database Implementation
- 62. **User Story # 18:** Master Password Authentication
- 63. **User Story #19:** Automated Test Suite

Sprint Goal

Deliver a close-to-final project documentation draft by Wednesday, April 15, and ensure a flawless, polished demonstration at the Senior Design Showcase on Friday, April 17. No new user stories will be introduced this sprint. All team capacity is reserved for documentation quality and demo readiness.

Team velocity for Sprint 7 was estimated at 5 out of 5. With no new feature development, the full sprint capacity is dedicated to documentation and final showcase preparation.

The following user stories have been selected by the product owner to move to the Backlog:

- **User Story #20:** NIST Password Compliance Checker (Stretch Goals / Low Priority) (5 points)
 - How this should be reflected in the user story definition:
 - Check against NIST SP 800-63B requirements
 - Validate minimum length, no dictionary words, no sequential/keyboard patterns
 - Display compliance score and specific violations
 - Option to auto-generate NIST-compliant passwords
 - **Security Impact:** MEDIUM - Addresses O5 (Compliance), O6 (Standards mapping)

Sprint 7 Focus Areas:

Project Documentation (Due Wednesday, April 15)

The close-to-final documentation draft must be completed following the CY_Project_Documentation_Template_2025 structure and must satisfy all ACM Student Outcomes (O1–O6) and the Capstone II Rubric. Required sections:

1. Section 1 — Executive Summary: Summarize the problem, stakeholders, solution approach, and key results in 300 words or fewer.
2. Section 2 — Problem & Requirements (O1): Include stakeholder personas, functional and non-functional requirements, the prioritized backlog, and success criteria.
3. Section 3 — System Overview & Architecture (O2): Architecture diagram (Python app, SQL Server, HIBP API), tech stack, and data/storage overview.
4. Section 4 — Discipline-Specific Depth / Threat Model (O6): STRIDE threat model covering assets (vault passwords, master credentials), adversaries, attack surfaces, and mitigations (Fernet encryption, salted SHA-256, k-Anonymity).
5. Section 5 — Implementation Notes (O2): Repository structure, module layout of strongpass.py, notable design decisions and tradeoffs.
6. Section 6 — Testing & Evaluation (O3): Strength scoring validation, breach API test cases, manual test results.
7. Section 7 — Security, Privacy & Compliance (O5): Encryption at rest, no cloud storage, k-Anonymity for breach checks, local-only data handling.

8. Section 9 — Limitations & Future Work: Honest accounting of unfinished stories (#7, #15) and backlog items (#9, #10, #12, #14) as a prioritized roadmap.
9. Appendix E — Poster, Slides, and Video Links: Link to completed poster (36"x48"), intro video, and demo video.
10. Appendix F — Scrum Evidence Index: Compile and link all sprint planning, review, and retrospective meeting minutes from Sprints 1–7.

Key Dates

Poster Deadline	Today @ 5pm
Intro & Demo Video Deadline	04/15/2026
Showcase Presentation	04/17/2026
Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 1

Date: 04/13/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 12:00 P.M.

End time: 1:30 P.M.

Sprint 7 Goals — Priority Overview

Deliver a close-to-final project documentation draft by Wednesday, April 15, and ensure a flawless, polished demonstration at the Senior Design Showcase on Friday, April 17. No new user stories will be introduced this sprint. All team capacity is reserved for documentation quality and demo readiness.

Moved to Backlog:

- US #20: NIST SP 800-63B Compliance Checker (5 pts) — length, dictionary, sequential pattern checks; compliance score display

What took place in the meeting?

- Worked with team members on features
- Testing current features
- Discussed upcoming deadlines
- Working on project documentation
- Recorded our introduction and implementation video
- Submitted Poster

Key Dates

Poster Deadline	Today @ 5pm
Intro & Demo Video Deadline	04/15/2026
Showcase Presentation	04/17/2026
Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 2

Date: 04/14/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 7:00 P.M.

End time: 8:00 P.M.

Sprint 7 Goals — Priority Overview

Deliver a close-to-final project documentation by Wednesday, April 15, and ensure a flawless, polished demonstration at the Senior Design Showcase on Friday, April 17. No new user stories will be introduced this sprint. All team capacity is reserved for documentation quality and demo readiness.

What took place in the meeting?

- Testing current features
- Working on project documentation

Project Documentation Sections

- Section 1 — Executive Summary: Summarize the problem, stakeholders, solution approach, and key results in 300 words or fewer.
- Section 2 — Problem & Requirements (O1): Include stakeholder personas, functional and non-functional requirements, the prioritized backlog, and success criteria.
- Section 3 — System Overview & Architecture (O2): Architecture diagram (Python app, SQL Server, HIBP API), tech stack, and data/storage overview.
- Section 4 — Discipline-Specific Depth / Threat Model (O6): STRIDE threat model covering assets (vault passwords, master credentials), adversaries, attack surfaces, and mitigations (Fernet encryption, salted SHA-256, k-Anonymity).
- Section 5 — Implementation Notes (O2): Repository structure, module layout of strongpass.py, notable design decisions and tradeoffs.
- Section 6 — Testing & Evaluation (O3): Strength scoring validation, breach API test cases, manual test results.
- Section 7 — Security, Privacy & Compliance (O5): Encryption at rest, no cloud storage, k-Anonymity for breach checks, local-only data handling.
- Section 9 — Limitations & Future Work: Honest accounting of unfinished stories and backlog items as a prioritized roadmap.
- Appendix E — Poster, Slides, and Video Links: Link to completed poster (36"x48"), intro video, and demo video.

- Appendix F — Scrum Evidence Index: Compile and link all sprint planning, review, and retrospective meeting minutes from Sprints 1–7.

Key Dates

Poster Deadline	Today @ 5pm
Intro & Demo Video Deadline	04/15/2026
Showcase Presentation	04/17/2026
Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 3

Date: 04/15/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 1:00 P.M.

End time: 3:30 P.M.

Sprint 7 Goals — Priority Overview

Deliver a close-to-final project documentation by Wednesday, April 15, and ensure a flawless, polished demonstration at the Senior Design Showcase on Friday, April 17. No new user stories will be introduced in this sprint. All team capacity is reserved for documentation quality and demo readiness.

What took place in the meeting?

- Testing current features
- Finalizing project documentation
- Converted required documents to online accessible PDFs
- Compiled Meeting Minutes
- Submitted Showcase Project Information Form

Project Documentation Sections

- Section 1 — Executive Summary:
- Section 2 — Problem & Requirements (O1)
- Section 3 — System Overview & Architecture (O2)
- Section 4 — Discipline-Specific Depth / Threat Model (O6)
- Section 5 — Implementation Notes (O2)
- Section 6 — Testing & Evaluation (O3)
- Section 7 — Security, Privacy & Compliance (O5)
- Section 8 — Deployment & Operations
- Section 9 — Limitations & Future Work
- Section 10 — References
- Appendix A: installation guide
- Appendix B: User Manual
- Appendix C: Admin/Operation Guide
- Appendix D: API reference
- Appendix E — Poster, Slides, and Video Links
- Appendix F — Scrum Evidence Index

- Appendix G: Outcome & Rubric Crosswalk Checklist

Key Dates

Project Information/Documentation	04/15/2026, Today @ 5pm
Intro & Demo Video Deadline	04/15/2026, Today @ 5pm
Showcase Presentation	04/17/2026
Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 4

Date: 04/16/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00 P.M.

End time: 7:30 P.M.

Sprint 7 Goals — Priority Overview

Prepared for the Senior Design Showcase on Friday, April 17 to ensure a flawless, polished demonstration. No new user stories will be introduced in this sprint. All team capacity is reserved for documentation quality and demo readiness.

What took place in the meeting?

- Testing current features
- Finalizing project documentation
- Compiled Meeting Minutes
- Prepared for showcase by discussing: Arrival time, presentation deliverable, and how we are to sample and present our product to students and faculty

Key Dates

Showcase Presentation	04/17/2026
Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 5

Date: 04/17/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 5:00 P.M.

End time: 6:00 P.M.

Sprint 7 Goals — Priority Overview

Prepared for the Senior Design Showcase on Friday, April 17 to ensure a flawless, polished demonstration. No new user stories will be introduced in this sprint. All team capacity is reserved for documentation quality and demo readiness.

What took place in the meeting?

- Went over documents
- Presented project at showcase
- Discussed Final Zip Deliverable

Key Dates

Showcase Presentation	04/17/2026
Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 6

Date: 04/20/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 5:00 P.M.

End time: 6:00 P.M.

Sprint 7 Goals — Priority Overview

No new user stories will be introduced in this sprint. All team capacity is reserved for documentation quality and demo readiness.

What took place in the meeting?

- Went over documents
- Putting the Final Zip Deliverable together
- Finalizing documentation

Key Dates

Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 9

Date: 04/21/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:30 P.M.

End time: 7:30 P.M.

Sprint 7 Goals — Priority Overview

No new user stories will be introduced in this sprint. All team capacity is reserved for documentation quality and demo readiness.

What took place in the meeting?

- Went over documents
- Putting the Final Zip Deliverable together
- Finalizing documentation

Key Dates

Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 10

Date: 04/22/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00 P.M.

End time: 7:00 P.M.

Sprint 7 Goals — Priority Overview

No new user stories will be introduced in this sprint. All team capacity is reserved for documentation quality and the final deliverable.

What took place in the meeting?

- Went over documents
- Putting the Final Zip Deliverable together
- Finalizing documentation
- Updating compiled meetings document

Key Dates

Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 11

Date: 04/23/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 8:00 P.M.

End time: 9:00 P.M.

Sprint 7 Goals — Priority Overview

No new user stories will be introduced in this sprint. All team capacity is reserved for documentation quality and the final deliverable.

What took place in the meeting?

- Finalizing documentation
- Updating compiled meetings document

Key Dates

Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Daily Scrum Meeting Minutes

Sprint: 7, Day: 12

Date: 04/24/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 6:00 P.M.

End time: 7:00 P.M.

Sprint 7 Goals — Priority Overview

No new user stories will be introduced in this sprint. All team capacity is reserved for documentation quality and the final deliverable.

What took place in the meeting?

- Finalizing documentation
- Updating compiled meetings document

Key Dates

Sprint 7 Review Meeting	04/26/2026
Sprint 7 Retrospective	04/26/2026
FINAL ZIP Deliverable	04/27/2026

Sprint Retrospective Meeting Minutes

Date: 04/26/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 1:00 P.M.

End time: 3:00 P.M.

Key Challenges Identified

Did we do a good job estimating our team's velocity?

Sprint 7 represented the final development sprint before the capstone submission deadline. The team projected velocity is 5 out of 5. We finished all documentation.

How accurate were our time and effort estimates for each user story?

Our time and effort estimates for completing documentation and tweaking prior user stories were accurate. We were successfully able to adjust previous user story and finish documentation before the deadline we created for ourselves. Since it was our last push to implement, all group members were able to put complete effort into completing it.

Did team members meet expected participation and contribution levels?

Yes. All team members contributed actively to development, testing, and documentation tasks during this sprint. End-of-semester workloads from other courses created some pressure, but the team maintained consistent communication and participation throughout daily scrums. Members covered for one another where needed to ensure critical stories were closed before the deadline.

Key Successes and Strengths

- The team was able to create and record a presentation for an introduction video to the project.

- The team worked together to create and gather all the final documentation.
- All members participated in the Capstone Design Showcase and were able to effectively share their knowledge about our application with other students.

Action Items for Improvement

- ☐ Review all documentation, videos, and files for final deliverables.
- ☐ The files consist of our code, poster, documents, presentation slides, and necessary videos.

Next Steps and Transition Plan

- The final deliverable is due April 27. All files have been prepared, complete, and moved into one zip file.

Sprint Review Meeting Minutes

Date: 04/26/2026

Attendees:

Christian Daniel Colon,
Marcell Placencia,
Zeyon Aaron Charles,
Ulyana Isabella Clarke,

Start time: 1:00 P.M.

End time: 3:00 P.M.

These user stories have been completed:

- **User Story #1:** Password Customization
- **User Story #2:** Create a user GUI
- **User Story #3:** Password Strength Meter
- **User Story #4:** Personalized Password
- **User Story #5:** Single Click Copy
- **User Story #6:** Regenerate/Undo Last Password
- **User Story #7:** Password History
- **User Story #8:** Password Breach Check
- **User Story #11:** Database Infrastructure
- **User Story #13:** Sleek UI
- **User Story #15:** Encrypted Password Export/Import
- **User Story #16:** Breach Check Integration
- **User Story #17:** Database Implementation
- **User Story # 18:** Master Password Authentication
- **User Story #19:** Automated Test Suite

During our last sprint, we complete all assigned user stories. Implementing these features has allowed us to create a complex yet understandable password generator and vault.