

Florida International University

Knight Foundation School of Computing and Information Sciences

Software Engineering Focus

Final Deliverable

Project Title: Capstone Project Selection Process

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Product Owner & Instructor: Masoud Sadjadi

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Abstract

This document presents the information necessary to gain a good understanding of ...

Project Selection Web Application arises from the issue of selecting a project to join at the beginning of the semester. This Web Application arises for Capstone I or Capstone II or Senior Project students. The current strategy given by the course instructor is based on an excel spreadsheet. It's without clear instruction of how to select a group project or join. After some careful experimentation on the spreadsheet, then can one derive conclusions on how to go about soliciting a project and selecting projects.

Our project is designed to allow for an intuitive project selection process for the students in each of the three offered courses.

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Introduction

Hello and welcome to the Project Selection project written in the semester of Fall 2022 at FIU. We are excited to present to the school a web application that focuses on a project selection for individual students having to select a project for their course - Capstone I, Capstone II, or Senior Project. This has been developed for the ease of students selecting their projects and being placed in a project, as well as professors having fewer messages from students asking the “How-To” process. This will also benefit project leads from having to respond to class members asking if they can join.

Current System

The current system is an updated version of the previous system based on constructive feedback from Professor Sadjadi and Capstone I and II students. The current system has a website that holds all the information related to the project selection process including the list of projects, a description of each project, and access to the Google Form, where students can select their desired projects in order of preference.

In addition to project descriptions and access to the Google Form sign-up sheet, the new system has a webpage with a list of questions and answers. This webpage will provide all students with clear and detailed instructions on how to use the system. This was designed to ensure all students understand how to use the system from the beginning of the course.

Purpose of New System

To have an intuitive project selection for the students. The students consist of Capstone I, Capstone II, and Senior Project. With the new system, the student will no longer face an Excel spreadsheet sent out at the beginning of the semester, but rather they’d get the link to the new web page created for a smooth experience. Now the student will go through a series of instructions that will lead them to the placement of a project they have selected. The project placement will work with an algorithm that will consider the project preferences from which they’d like to work on from most favorite to least favorite. By the end of the day (at midnight) on which the student has selected their preferences, the function will trigger to then place the student in a project and be notified via email.

This goes back to the same type of methodology originally intended for the Excel spreadsheet. In which a student would have to find team leads from projects and email them to ask for permission to join the team. This is the essence of the web application. With this new approach, the school can have a neat web application that students may learn to appreciate, and the professor of the course can have fewer emails or messages on canvas concerning the project selection process.

User Stories

The following section provides the detailed user stories that were implemented in this iteration of the Capstone Selection Process project. These user stories served as the basis for the implementation of the project's features. This section also shows the user stories that are to be considered for future development.

Implemented User Stories

1. As the professor, I want to know the issues of the current selection process, so that I know where to improve in the future.
2. As a student, I want a front page for the website, so that I can clearly and easily navigate to the correct portion of the website.
3. As the professor, I want a coefficient to decide which projects students are placed into, so that no single project is overloaded.
4. As a student, I want a webpage specific to the course I'm enrolled in, so that I can differentiate from instructions for other Capstone courses.
5. As the professor, I want students who drop their Capstone class to be removed from the project selection process, so that only currently enrolled students hold spots in every project.
6. As a student, I want to be able to submit my project preferences through a form, so that I do not have to directly access the spreadsheet.
7. As a student, I want clear instructions, so that I know the steps necessary to select my project.
8. As a student, I want a website that is aesthetically pleasing, so that I am not distracted or hindered by the website's design when selecting a project.
9. As the professor, I want a project webpage template, so that the creation of the project list is automated.

Pending User Stories

10. As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.
11. As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.
12. As the professor, I want the Google Spreadsheets to automatically pull the necessary data for calculations from the respective sources, so that the amount of manual work is minimized.
13. As a student, I want updated emails that state who my group members are and what project I was assigned, so that I have an opportunity to reach out to these members before sprint work begins.

14. As a student, I want updated emails to occur on a daily basis, so that I'll know if any new members are assigned to my group or if others have left.
15. As the professor, I want the Google Forms to close automatically, so that students do not modify their responses after decisions are finalized.
16. As the professor, I want the Google Forms to open automatically, so that students with a lower choice priority do not submit while higher priority students are still submitting responses.
17. As a student, I want to know the deadline to submit my response, so that I don't accidentally wait too long to submit my preferences.
18. As a student, I want to be able to change my response, so that if I don't like the group I was assigned I can attempt to join a different project.
19. As a student, I want to only see projects that are not full when submitting my response, so that I don't select a project that has become full.
20. As a student, I want a webpage that informs me about each project, so that I can make an educated decision when selecting my preferences.
21. As the professor, I want past incomplete projects to be available for the next semester, so that Capstone II students can continue working on their previous semester's project.
22. As a student, I want the spreadsheet to remember what I worked on in the previous semester, so that if the project is incomplete, I can get the highest priority for being assigned that project if I so choose.
23. As a student, I want the spreadsheet to remember key details of incomplete projects (such as how many semesters the project has persisted), so that I have can make an educated decision based on the history of the project.
24. As the professor, I want the spreadsheet to delete past students and projects that are no longer relevant, so that it doesn't store unnecessary data.

Project Plan

This section describes the planning that went into the realization of this project. This project incorporated the agile development techniques and as such required the sprints to be planned. These sprint plannings are detailed in the section. This section also describes the components, both software and hardware, chosen for this project.

Hardware and Software Resources

The following is a list of all hardware and software resources that were used in this project:

- **Visual Studio**
- **Google Forms**
- **Google Sites**
- **Google Sheets**
- **Google Apps Script**

Sprints Plan

Sprint 1

Date: 08/28/2022

Start: 5:07 PM

End: 6:31 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead: Michael Simon

Senior Project: Morris Silva

Capstone I: Hubert Cabrera, Athena Scarlett, German Alvarenga, Karim Salazar Wang, Zachary Alabre, Jose Illidge

Product Owner: Seyedmasoud Sadjadi

Story Allocation

- **Athena Scarlett, German Alvarenga, Jose Illidge, Michael Simon**
As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.
- **Jose Illidge, Leanne Nelson, Morris Silva**
As the professor, I want a coefficient to decide which projects students are placed into, so that no single project is overloaded.
- **Karim Salazar Wong, Leanne Nelson, Morris Silva, Zachary Alabre**
As a student, I want to be able to submit my project preferences through a form, so that I do not have to directly access the spreadsheet.
- **Michael Simon, Zachary Alabre**
As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

- **German Alvarenga, Jose Illidge**

As the professor, I want to know the issues of the current selection process, so that I know where to improve in the future.

- **German Alvarenga, Jose Illidge**

As a student, I want clear instructions, so that I know the steps necessary to select my project.

- **Hubert Cabrera, Leanne Nelson**

As the professor, I want students who drop their Capstone class to be removed from the project selection process, so that only currently enrolled students hold spots in every project.

Sprint 2

Date: 09/13/2022

Start: 8:30 PM

End: 9:00 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead: Michael Simon

Senior Project: Morris Silva

Capstone I: German Alvarenga, Karim Salazar Wang, Zachary Alabre, Jose Illidge

Product Owner:

Story Allocation

- **Jose Illidge, Michael Simon, Zachary Alabre**

As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.

- **Leanne Nelson**

As the professor, I want a coefficient to decide which projects students are placed into, so that no single project is overloaded.

- **German Alvarenga, Hubert Cabrera, Karim Salazar Wong, Morris Silva, Zachary Alabre**

As a student, I want a front page for the website, so that I can clearly and easily navigate to the correct portion of the website.

- **Jose Illidge, Michael Simon, Zachary Alabre**

As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

- **Athena Scarlett**

As a student, I want clear instructions, so that I know the steps necessary to select my project.

- **Morris Silva**

As the professor, I want students who drop their Capstone class to be removed from the project selection process, so that only currently enrolled students hold spots in every project.

- **German Alavrenga, Morris Silva**

As a student, I want to be able to submit my project preferences through a form, so that I do not have to directly access the spreadsheet.

Sprint 3

Date: 09/26/2022

Start: 8:30 PM

End: 9:05 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead: Michael Simon

Senior Project: Morris Silva

Capstone I: German Alvarenga, Karim Salazar Wang, Zachary Alabre, Athena Scarlett, Hubert Cabrera

Product Owner:

Story Allocation

- **Athena Scarlett, Michael Simon**

As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.

- **German Alvarenga, Hubert Cabrera, Karim Salazar Wong, Morris Silva, Zachary Alabre**

As a student, I want a webpage specific to the course I'm enrolled in, so that I can differentiate from instructions for other Capstone courses.

- **Athena Scarlett, Leanne Nelson**

As a student, I want clear instructions, so that I know the steps necessary to select my project.

- **Leanne Nelson**

As the professor, I want a coefficient to decide which projects students are placed into, so that no single project is overloaded.

- **Michael Simon, Zachary Alabre**

As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

- **Leanne Nelson, Morris Silva**

As the professor, I want students who drop their Capstone class to be removed from the project selection process, so that only currently enrolled students hold spots in every project.

- **German Alavrenga, Morris Silva**

As a student, I want to be able to submit my project preferences through a form, so that I do not have to directly access the spreadsheet.

Sprint 4

Date: 10/10/2022

Start: 8:48 PM

End: 9:30 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead: Michael Simon

Senior Project: Morris Silva

Capstone I: German Alvarenga, Karim Salazar Wang, Zachary Alabre, Athena Scarlett, Hubert Cabrera, Jose Illidge

Product Owner:

Story Allocation

- **Athena Scarlett, Michael Simon, Leanne Nelson**

As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.

- **Hubert Cabrera, Morris Silva, Zachary Alabre**

As a student, I want a website that is aesthetically pleasing, so that I am not distracted or hindered by the website's design when selecting a project.

- **Michael Simon, Zachary Alabre**

As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

- **Hubert Cabrera, Leanne Nelson, Morris Silva**

As the professor, I want students who drop their Capstone class to be removed from the project selection process, so that only currently enrolled students hold spots in every project.

- **Athena Scarlett, German Alvarenga**

As a student, I want to be able to submit my project preferences through a form, so that I do not have to directly access the spreadsheet.

Sprint 5

Date: 10/24/2022

Start: 8:30 PM

End: 8:56 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead: Michael Simon

Senior Project: Morris Silva

Capstone I: German Alvarenga, Karim Salazar Wang, Athena Scarlett, Hubert Cabrera, Jose Illidge

Product Owner:

Story Allocation

- **Michael Simon**

As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.

- **Leanne Nelson**
As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.
- **German Alvarenga, Leanne Nelson**
As the professor, I want Google Spreadsheets to automatically pull the necessary data for calculations from the respective sources, so that the amount of manual work is minimized.
- **German Alvarenga, Hubert Cabrera, Karim Salazar Wong, Morris Silva, Zachary Alabre**
As a student, I want a website that is aesthetically pleasing, so that I am not distracted or hindered by the website's design when selecting a project.
- **Morris Silva**
As the professor, I want a project webpage template, so that the creation of the project list is automated.

Sprint 6

Date: 11/07/2022

Start: 4:00 PM

End: 5:00 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead:

Senior Project: Morris Silva

Capstone I: German Alvarenga, Karim Salazar Wang, Hubert Cabrera, Jose Illidge

Product Owner:

Story Allocation (Focusing on Deliverables)

- **German Alvarenga, Hubert Cabrera**
Presentation Slides
- **German Alvarenga, Hubert Cabrera**
Videos
- **Athena Scarlett, Karim Salazar Wong, Leanne Nelson**
Diagrams
- **Jose Illidge**
Test Cases & Suites

Sprint 7

Date: 11/21/2022

Start: 8:30 PM

End: 10:04 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead: Michael Simon

Senior Project: Morris Silva

Capstone I: German Alvarenga, Karim Salazar Wang, Hubert Cabrera, Jose Illidge, Athena Scarlett, Zachary Alabre

~~Product Owner:~~

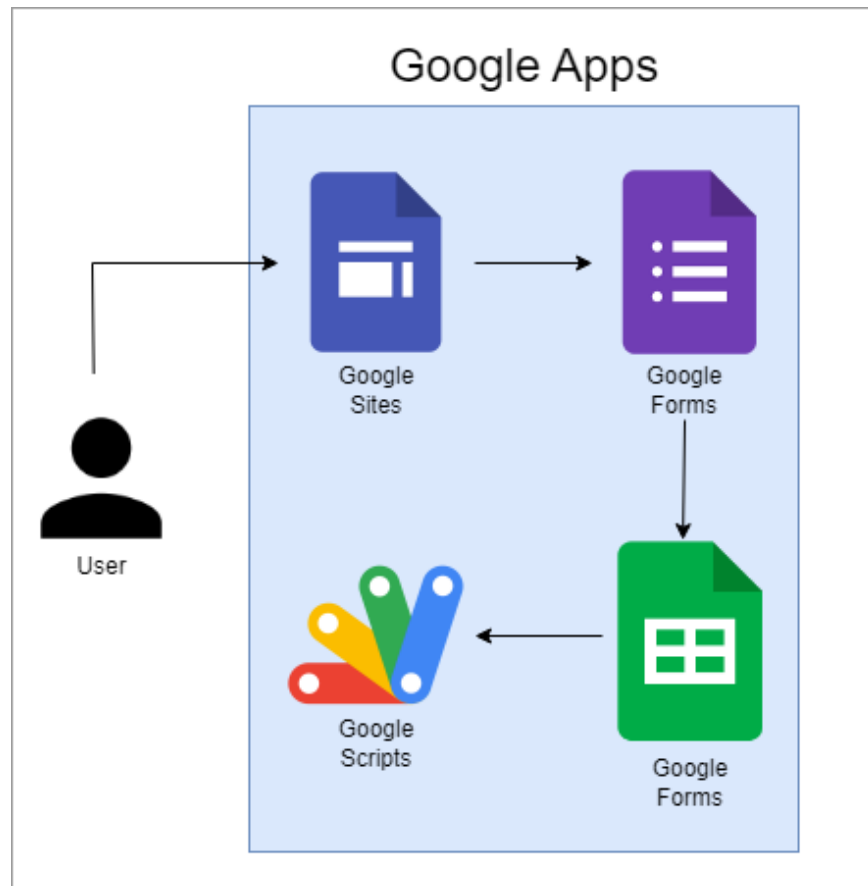
Story Allocation (Focusing on Deliverables)

- **Leanne Nelson, Zachary Alabre**
Capstone I Poster
- **German Alvarenga, Hubert Cabrera**
Presentation Slides
- **Morris Silva, Leanne Nelson**
README.txt
- **German Alvarenga, Morris Silva**
Introductory Video
- **Karim Salazar Wong, Morris Silva**
Usage Video
- **Leanne Nelson, Morris Silva**
Installing, Maintaining, and Future Revisions Video
- **Hubert Cabrera, Morris Silva**
Shortcomings Video
- **German Alvarenga, Karim Salazar Wang, Hubert Cabrera, Jose Illidge, Athena Scarlett, Zachary Alabre, Leanne Nelson, Morris Silva**
Deliverable Document

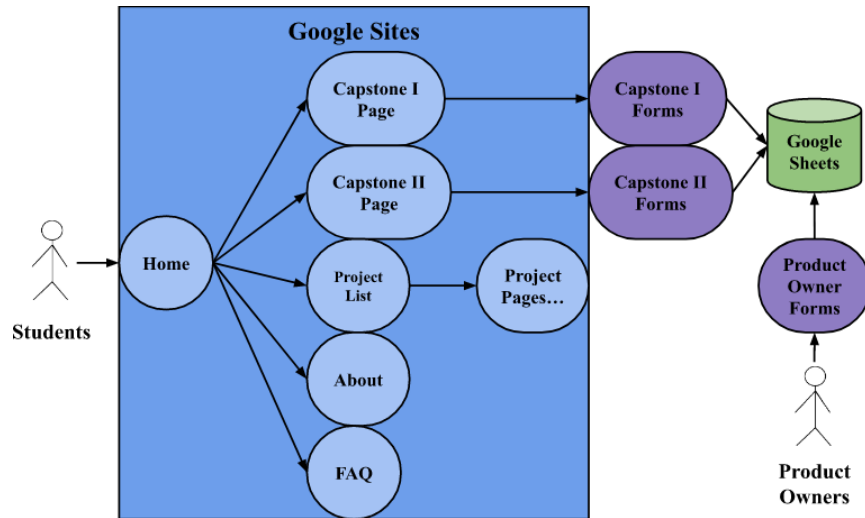
System Design

This section contains information on the design decisions that went into this project. The architectural patterns are outlined and explained. The entire system is shown in a package diagram and the subsystems are explained. Finally, the design patterns used in the project are discussed.

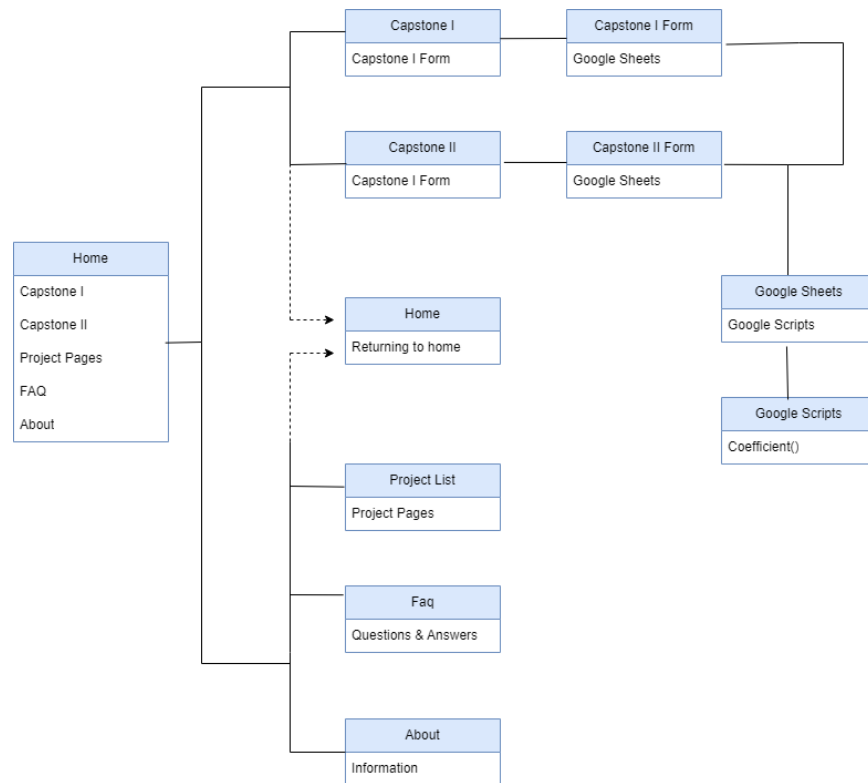
Architectural Patterns



System and Subsystem Decomposition



Deployment Diagram



Design Patterns

- **Home:** Contains the navigation system for the entire web application
- **Capstone I:** Contains capstone I instructions and capstone I form
 - **Capstone I Form:** Contains capstone I form
- **Capstone II:** Contains capstone II instructions and capstone II form
 - **Capstone II Form:** Contains capstone II form

- **Google Sheets:** Stores the student data from form
 - **Google Script:** Algorithm that places the student in a project
- **Project Pages:** Contains a list a small description of each selectable project
- **FAQ:** Contains frequently asked questions by students and their answer in a dropdown tab
- **About:** Contains information on each meeting necessary throughout the semester/course

System Validation

Test Suites

01-Project Pages Test Suite

- Test cases in this group aim to check that each Project Page is displaying the appropriate project information. For instance, that the entire project description is captured, title, product owner name and email ...
- **01A-Project Information Test Suite**
 - Goal for this collection of test cases is to assure that the project information filled out by the Product Owner (i.e., title, project description) is accurately retained and populated in the Project List/Pages web page.

02-Student Selection Test Suite

- Given that students are asked to select three projects of preference, test cases will validate that a student has been placed in at least one of their three choices
- **02A-Student Information Test Suite**
 - Goal for this collection of test cases is to assure that the information filled out by the Student (i.e., name, student ID, project preferences) is accurately retained.

03-General Actions Test Suite

- This collection of test cases will inspect general actions of the website such as clicking/selecting About leads to the About page, FAQ leads to FAQ page, etc..

Test Cases

Test Case ID: 01-1

Test case Description: View project details of “Project A”

Test steps: Navigate to Project List, select “Project A” page

Pre-requisites: Product Owner has filled out Google Form and Test Suite 01A

Expected Result: information on this page matches the description given by Product Owner of “Project A”

Test Case ID: 02-1

Test case Description: Placement of student within one of their three choices

Test steps: Check email that contains final project placement

Pre-requisites: Student has filled out Google Form with their three preferences and Test Suite 02A

Expected Result: project selection algorithm has achieved placing the student in one of their three preferences

Glossary

Agile Development: Agile development is an iterative software-development methodology which teams use in projects.

Algorithm: A process or set of rules to be followed in calculations or other problem-solving operations, especially by a computer.

Capstone: The completion marker, of a student's coursework leading to the culmination of their program with a degree in their chosen field of study.

Coefficient: A numerical or constant quantity placed before and multiplying the variable in an algebraic expression.

Hardware: The machines, wiring, and other physical components of a computer or other electronic system.

Panthersoft: A system that manages, implements and supports FIU's PeopleSoft Student-Campus Solutions, Financials, and Human Resource Management systems integrated within the MyFIU portal, FIU's Enterprise Imagine Systems, FIU Mobile, FIU's Business Intelligence & Analytics, as well as the design, development, and maintenance of FIU's web and interactive learning presence (Panthersoft).

Product Owner: Defines user stories and creates a product backlog.

Senior Project: A project that challenges high school seniors to demonstrate their academic knowledge in an experiential way (in most cases).

Software: The programs and other operating information used by a computer.

Sprint: A short, time-boxed period when a scrum team works to complete a set amount of work.

Unified Modeling Language (UML): A standard notation for the modeling of real-world objects as a first step in developing an object-oriented design methodology.

User Interface (UI): The means by which the user and a computer system interact, in particular the use of input devices and software.

User Story: A user story is an informal, general explanation of a software feature written from the perspective of the end user or customer.

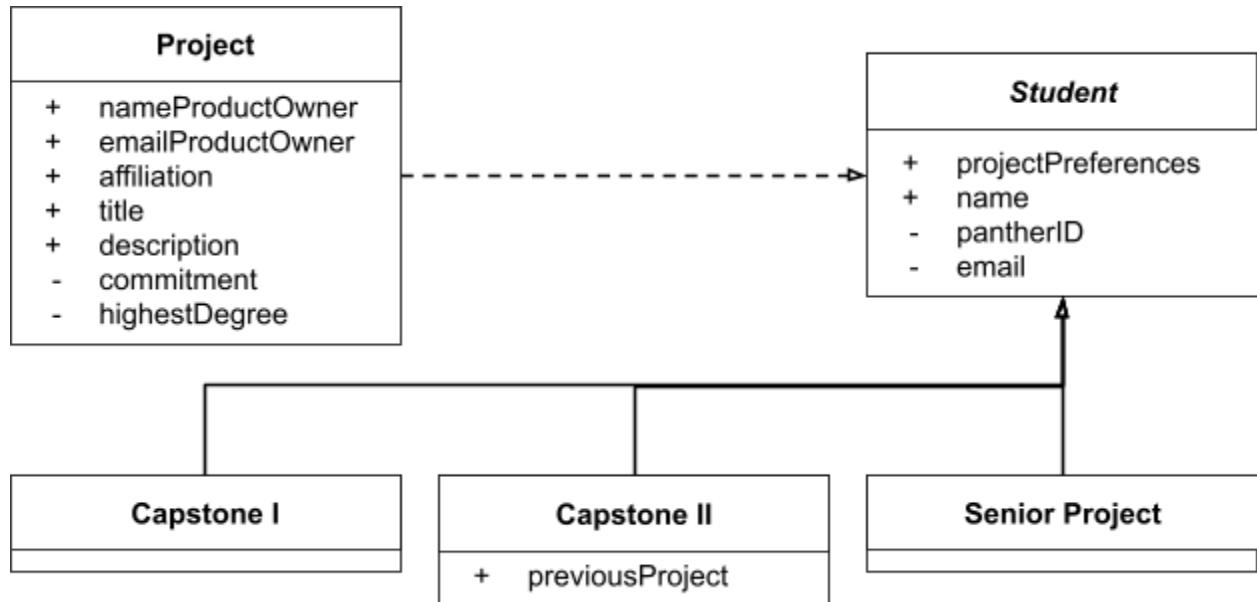
Visual Studio: An integrated development environment (IDE) from Microsoft.

Web Application: An application software that is accessed using a web browser.

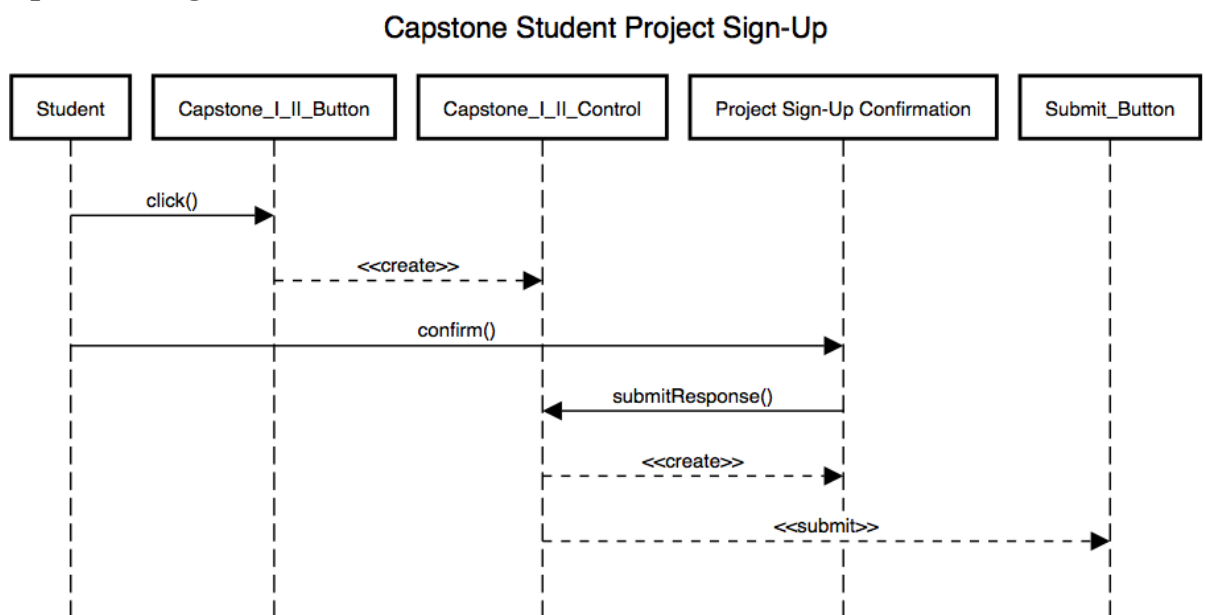
Appendix

Appendix A - UML Diagrams

Class Diagram



Sequence Diagram



Scenario Diagram

Scenario Name:	Project Selection
Created By:	Athena Scarlett

Date Created:	12/10/22
Actors:	Jose: Capstone I Student WebsiteSystem
Flow of Events:	1. Jose wants to sign up for a capstone project for the very first time. 2. Jose (referred to as User from now on) clicks on the “Capstone I” button on the home page. 3. The system takes the User to the Google Form page, where the User can select the list of projects of his preference. 4. After the User has entered the necessary details, he clicks the submit button. 5. The system displays on the screen that the response has been recorded and successfully submitted.

Appendix B - User Interface Design



Capstone I

Welcome to Capstone I !

In case you're not sure what this course is about, you'll be working with a team to make something cool!

Now you may be wondering, what kind of project?

Well, that's kinda up to you.

- First thing you'll want to do is check out the list of [possible projects](#) and see what catches your eye.
- Make a priority list of what projects you like based on the projects information from 1 (most) to at least 10 (least)
- Once you have that, you'll be ready to fill out the form! You'll need to put in your name, email, and the preferences you just planned out.
- After submitting the form all you have to do is wait until you receive a message about the project you ended up being placed in and how to proceed further. Don't worry, we have an algorithm working behind the scenes to get you your most preferred project where possible! :D

Capstone I sign-up Deadline:

Feel free to reach out to the assigned product owner of your interest via email. Their contact information can be found on the webpage of the project you are interested in.

Once the group for a project has been filled then you and your teammates can communicate with each other through Canvas Groups and exchange contact there.

Your 2 team leads can be selected after the group spots have been filled.

Capstone I Sign-Up Form

Please use the email that is assigned to your FIU Canvas while filling out form.

After providing us with your basic information, proceed by listing your projects by preference. Ensure your top preferences are correctly listed before submitting your form.

You will be notified when the groups have been finalised by the **DEADLINE: Monday, August 26, 2022 at 11:59PM EST.**

sk8ermorris@hotmail.com [Switch account](#)

* Required

Capstone II

Welcome to Capstone II !

You have successfully completed Capstone I and now you have matriculated to Capstone II.

First thing you'll want to do is check out the list of [possible projects](#) and find your project and apply to it.

Capstone II sign-up Deadline:

Once the group for a project has been filled then you and your teammates can communicate with each other through Canvas Groups and exchange contact there.

Your two team leads can be selected after the group spots have been filled.

Capstone II Sign-Up Form

Please use the email that is assigned to your FIU Canvas while filling out form.

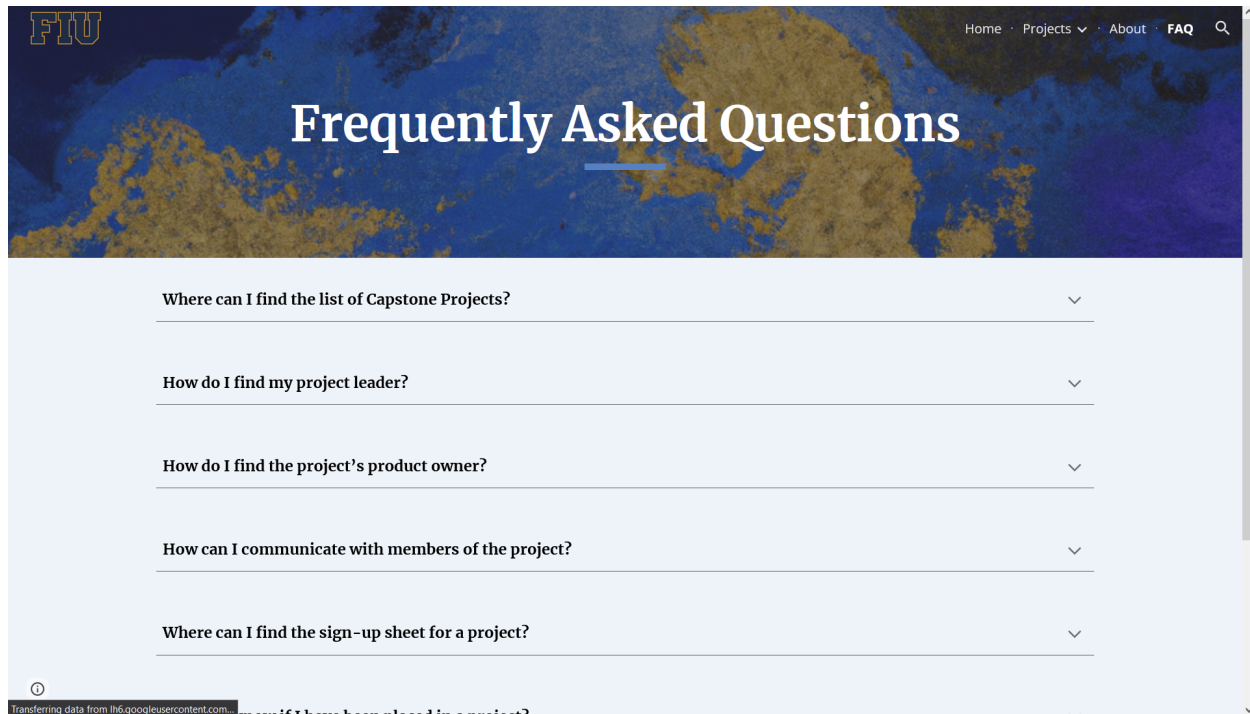
After providing us with your basic information, proceed by listing your projects by preference. Ensure your top preferences are correctly listed before submitting your form.

You will be notified when the groups have been finalised by the **DEADLINE: Monday, August 26, 2022 at 11:59PM EST.**

sk8ermorris@hotmail.com [Switch account](#)

* Required

Email *



Appendix C - Sprint Review Reports

Sprint 1

Date: 09/11/2022

Start: 9:30 PM

End: 10:15 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead: Michael Simon

Senior Project: Morris Silva

Capstone I: Athena Scarlett, German Alvarenga, Karim Salazar Wang

Product Owner:

Accepted Stories

1. As the professor, I want to know the issues of the current selection process, so that I know where to improve in the future.

Backlogged Stories

- As a student, I want clear instructions, so that I know the steps necessary to select my project.
- As the professor, I want students who drop their Capstone class to be removed from the project selection process, so that only currently enrolled students hold spots in every project.
- As a student, I want to be able to submit my project preferences through a form, so that I do not have to directly access the spreadsheet.
- As the professor, I want a coefficient to decide which projects students are placed into, so that no single project is overloaded.

- As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.
- As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

Sprint 2

Date: 09/23/2022

Start: 3:00 PM

End: 3:30 PM

Attendance

Main Lead: Leanne Nelson

~~Assistant Lead:~~

Senior Project: Morris Silva

Capstone I: Hubert Cabrera, German Alvarenga, Jose Illidge

~~Product Owner:~~

Accepted Stories

2. As a student, I want a front page for the website, so that I can clearly and easily navigate to the correct portion of the website.

Backlogged Stories

- As a student, I want clear instructions, so that I know the steps necessary to select my project.
- As a student, I want a webpage specific to the course I'm enrolled in, so that I can differentiate from instructions for other Capstone courses.
- As the professor, I want students who drop their Capstone class to be removed from the project selection process, so that only currently enrolled students hold spots in every project.
- As a student, I want to be able to submit my project preferences through a form, so that I do not have to directly access the spreadsheet.
- As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.
- As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

Sprint 3

Date: 10/07/2022

Start: 8:30 PM

End: 9:20 PM

Attendance

Main Lead: Leanne Nelson

~~Assistant Lead:~~

Senior Project: Morris Silva

Capstone I: Hubert Cabrera, German Alvarenga

~~Product Owner:~~

Accepted Stories

3. As the professor, I want a coefficient to decide which projects students are placed into, so that no single project is overloaded.

4. As a student, I want a webpage specific to the course I'm enrolled in, so that I can differentiate from instructions for other Capstone courses.

Backlogged Stories

- As a student, I want clear instructions, so that I know the steps necessary to select my project.
- As a student, I want to be able to submit my project preferences through a form, so that I do not have to directly access the spreadsheet.
- As a student, I want a website that is aesthetically pleasing, so that I am not distracted or hindered by the website's design when selecting a project.
- As the professor, I want students who drop their Capstone class to be removed from the project selection process, so that only currently enrolled students hold spots in every project.
- As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.
- As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

Sprint 4

Date: 10/21/2022

Start: 8:30 PM

End: 9:15 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead: Michael Simon

Senior Project: Morris Silva

Capstone I: German Alvarenga, Karim Salazar Wong, Athena Scarlett, Jose Illidge

Product Owner:

Accepted Stories

5. As the professor, I want students who drop their Capstone class to be removed from the project selection process, so that only currently enrolled students hold spots in every project.
6. As a student, I want to be able to submit my project preferences through a form, so that I do not have to directly access the spreadsheet.
7. As a student, I want clear instructions, so that I know the steps necessary to select my project.

Backlogged Stories

- As a student, I want a website that is aesthetically pleasing, so that I am not distracted or hindered by the website's design when selecting a project.
- As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.
- As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

Sprint 5

Date: 11/04/2022

Start: 8:30 PM

End: 9:38 PM

Attendance

Main Lead: Leanne Nelson

~~**Assistant Lead:**~~

Senior Project: Morris Silva

Capstone I: German Alvarenga, Karim Salazar Wong, Athena Scarlett, Hubert Cabrera

~~**Product Owner:**~~

Accepted Stories

8. As a student, I want a website that is aesthetically pleasing, so that I am not distracted or hindered by the website's design when selecting a project.
9. As the professor, I want a project webpage template, so that the creation of the project list is automated.

Backlogged Stories

- As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.
- As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

Sprint 6

Date: 11/18/2022

Start: 8:30 PM

End: 9:17 PM

Attendance

Main Lead: Leanne Nelson

Assistant Lead: Michael Simon

Senior Project: Morris Silva

Capstone I: German Alvarenga, Jose Illidge

~~**Product Owner:**~~

Backlogged Stories

- As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.
- As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.

Sprint 7

Date: 12/02/2022

Start: 3:00 PM

End: 3:21 PM

Attendance

Main Lead: Leanne Nelson

~~Assistant Lead:~~

Senior Project: Morris Silva

Capstone I: German Alvarenga, Hubert Cabrera, Athena Scarlett, Karim Salazar Wong

~~Product Owner:~~

Backlogged Stories

- As a student, I want the form to be protected from modification by outside users, so that our responses are accurate to our true preferences.
- As the professor, I want course data to be automatically pulled from Panthersoft, so that the amount of manual work is reduced and reduces human error.
- As the professor, I want the Google Spreadsheets to automatically pull the necessary data for calculations from the respective sources, so that the amount of manual work is minimized.
- As a student, I want updated emails that state who my group members are and what project I was assigned, so that I have an opportunity to reach out to these members before sprint work begins.
- As a student, I want updated emails to occur on a daily basis, so that I'll know if any new members are assigned to my group or if others have left.
- As the professor, I want the Google Forms to close automatically, so that students do not modify their responses after decisions are finalized.
- As the professor, I want the Google Forms to open automatically, so that students with a lower choice priority do not submit while higher priority students are still submitting responses.
- As a student, I want to know the deadline to submit my response, so that I don't accidentally wait too long to submit my preferences.
- As a student, I want to be able to change my response, so that if I don't like the group I was assigned I can attempt to join a different project.
- As a student, I want to only see projects that are not full when submitting my response, so that I don't select a project that has become full.
- As a student, I want a webpage that informs me about each project, so that I can make an educated decision when selecting my preferences.
- As the professor, I want past incomplete projects to be available for the next semester, so that Capstone II students can continue working on their previous semester's project.
- As a student, I want the spreadsheet to remember what I worked on in the previous semester, so that if the project is incomplete, I can get the highest priority for being assigned that project if I so choose.
- As a student, I want the spreadsheet to remember key details of incomplete projects (such as how many semesters the project has persisted), so that I can make an educated decision based on the history of the project.
- As the professor, I want the spreadsheet to delete past students and projects that are no longer relevant, so that it doesn't store unnecessary data.

Appendix D - Documentation

User Manuals

[Demo Video](#) *(The picture below is also hyperlinked)*



Maintenance

[Maintenance Video](#) *(The picture below is also hyperlinked)*



Shortcomings/Wishlist

[Shortcomings Video](#) *(The picture below is also hyperlinked)*



Other Documents

- [Project Selection Website](#)
- [Capstone I Form](#)
- [Capstone II Form](#)
- [Project Proposal Form](#)
- [Back-End Spreadsheet](#)

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