



Florida International University (SCIS)

Summer 2023 Capstone 2 Project

Free Food FIU

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PROBLEM

Food waste and food insecurity are significant issues on college campuses. Students often organize events where free food is available, but the lack of a centralized platform makes it challenging for students to discover these events and reduce food waste. Additionally, students facing food insecurity may miss out on opportunities to access free food. The project aims to address these problems by creating a platform that connects students with campus events offering free food.

USER INTERFACE

- Collaborated with the design team to ensure a visually appealing and user-friendly interface.
- Contributed to the layout and design elements of the platform, aiming to enhance student engagement and ease of use.
- Ensured a seamless and intuitive user experience through the implementation of clear navigation and interactive features.

CONCLUSIONS

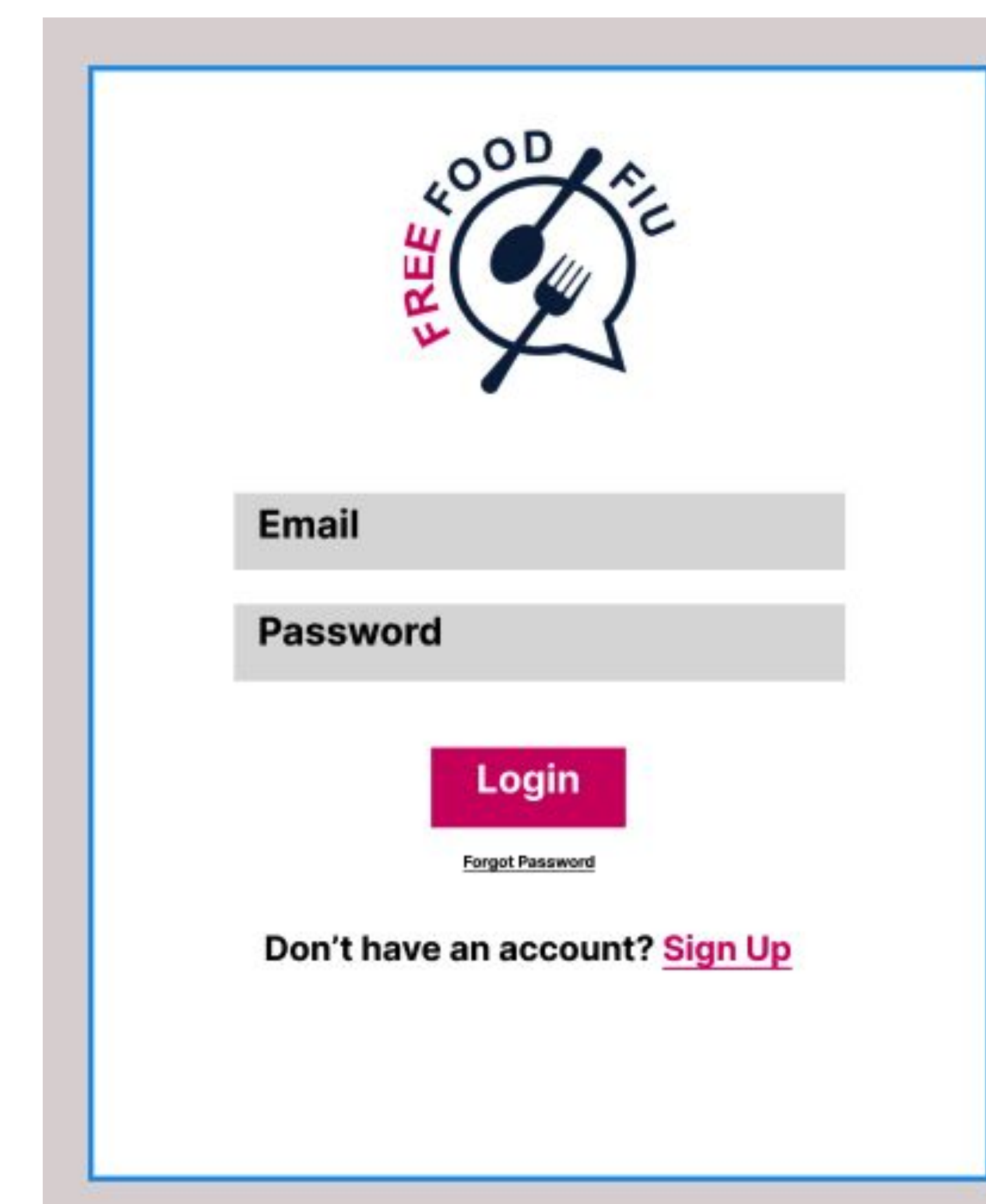
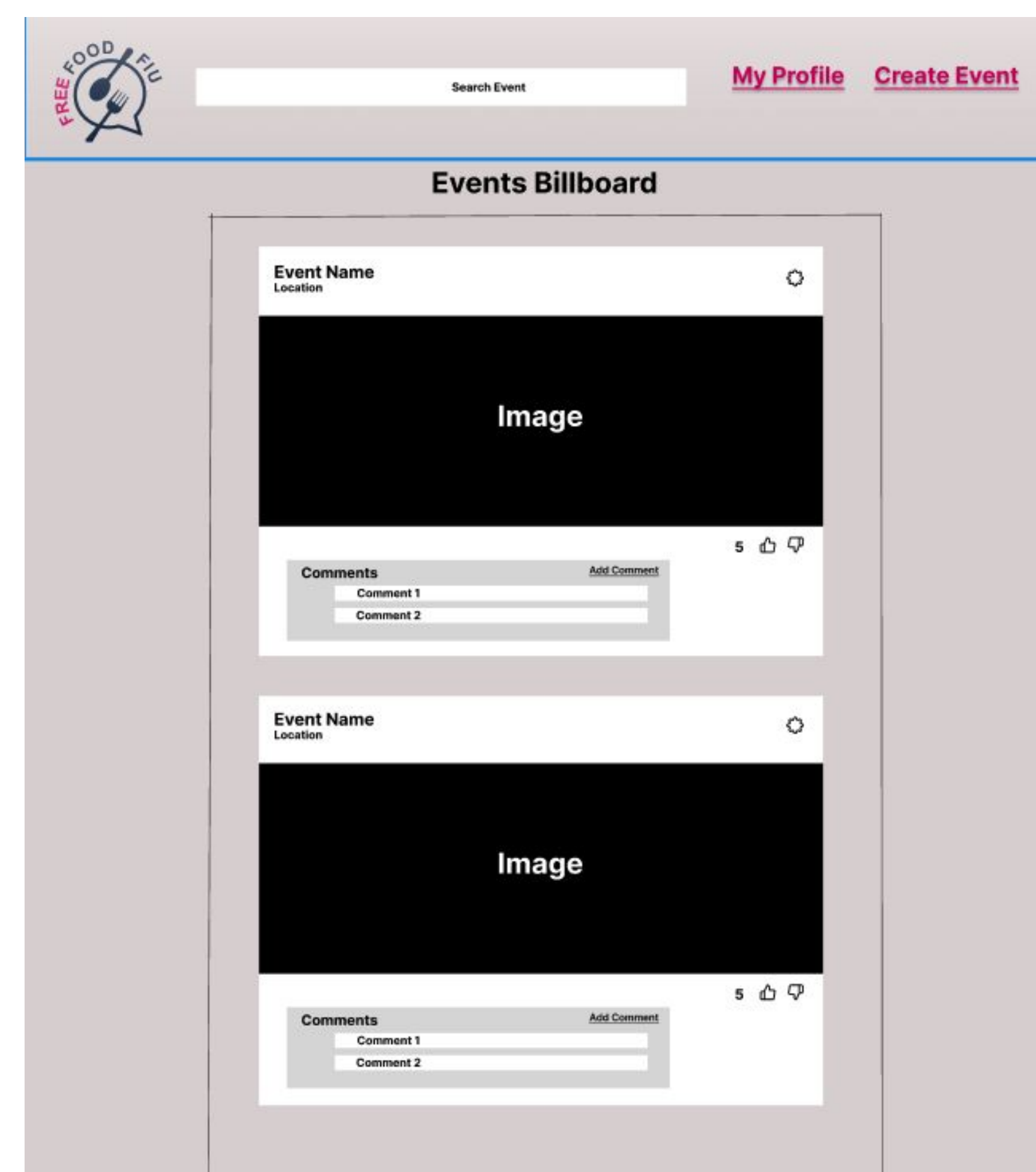
The Free Food FIU project aims to address food waste and food insecurity on college campuses by providing a centralized platform for students to discover and engage with events offering free food. Through my contributions, including research, implementation, and testing, I actively participated in developing the platform's core functionalities. Moving forward, the project has the potential to make a significant impact on campus communities, fostering sustainability and supporting students facing food insecurity.

ACKNOWLEDGEMENT

Thank you to my team members for working diligently with me to realize this project: Carlos Manuel Moya Ramirez., Annie Nguyen, Jose Rodolfo Espinoza Garcia, and Sebastian Peña

REQUIREMENTS

- Develop a user-friendly platform that allows students to search for events based on location and type of food.
- Enable eventgoers to add and update event information to ensure accuracy and up-to-date details.
- Implement a database management system to store event and user data securely.
- Integrate maps to provide event locations and directions.
- Create a visually appealing interface that encourages student engagement and participation.



TESTING / QUALITY ASSURANCE

- Actively participated in the testing and quality assurance processes, identifying bugs, and suggesting improvements.
- Conducted thorough testing of the features I developed, ensuring they functioned as intended and met the project's requirements.
- Collaborated with the QA team to address any issues or discrepancies and provided necessary fixes.

IMPLEMENTATION

- Thoroughly researched and familiarized myself with the MERN (MongoDB, Express.js, React.js, Node.js) web app stack, which served as the foundation for the platform.
- Actively participated in discussions related to feature development and design, contributing ideas and insights.
- Established the initial framework for the MERN application on GitHub, providing a starting point for the team's development process.
- Set up the database using MongoDB Atlas, ensuring secure storage and retrieval of event and user data.
- Developed the backend functionality by implementing controllers, models, and routes for user and food event collections.
- Implemented the event creation page, allowing users to create events through the platform and providing seamless functionality.
- Created the user registration and account creation functionality, enabling users to sign up and access the platform.
- Developed the backend functionality for event search, allowing users to search events based on various fields like location and hosting organization.

FUTURE ENHANCEMENTS

- Proposed and discussed potential future enhancements, such as incorporating a rating system for events or integrating social media sharing features.
- Suggested improvements to the platform's performance, scalability, and security.
- Explored the possibility of extending the platform to include additional campuses or partnering with local organizations to expand its reach.