Project Report

Title: BetterFit

Who:

- Team Members:
  - Kayo Abdi
  - Alexander Baker
  - Yusuf Hanif
 - Minh Nguyen
  - Miguel Ramirez-Aleman

Project Description:

BetterFit is an innovative web application designed to help users achieve their health and fitness goals by providing personalized features, including recipe management and fitness tracking. The website integrates a "Favorite Recipe" element, allowing users to save, view, and manage their preferred recipes. Alongside this, BetterFit offers tools for exercise planning, goal setting, and progress tracking to ensure users stay motivated and on track. The application combines a user-friendly interface with robust backend functionality, leveraging modern web development technologies such as Node.js, Express, and PostgreSQL for a seamless and secure experience. By focusing on personalization and accessibility, BetterFit aims to empower users in making healthier lifestyle choices.

Project Tracker - GitHub Project Board:

- Link: https://github.com/users/Alexander-Baker-1/projects/2

Screenshot:
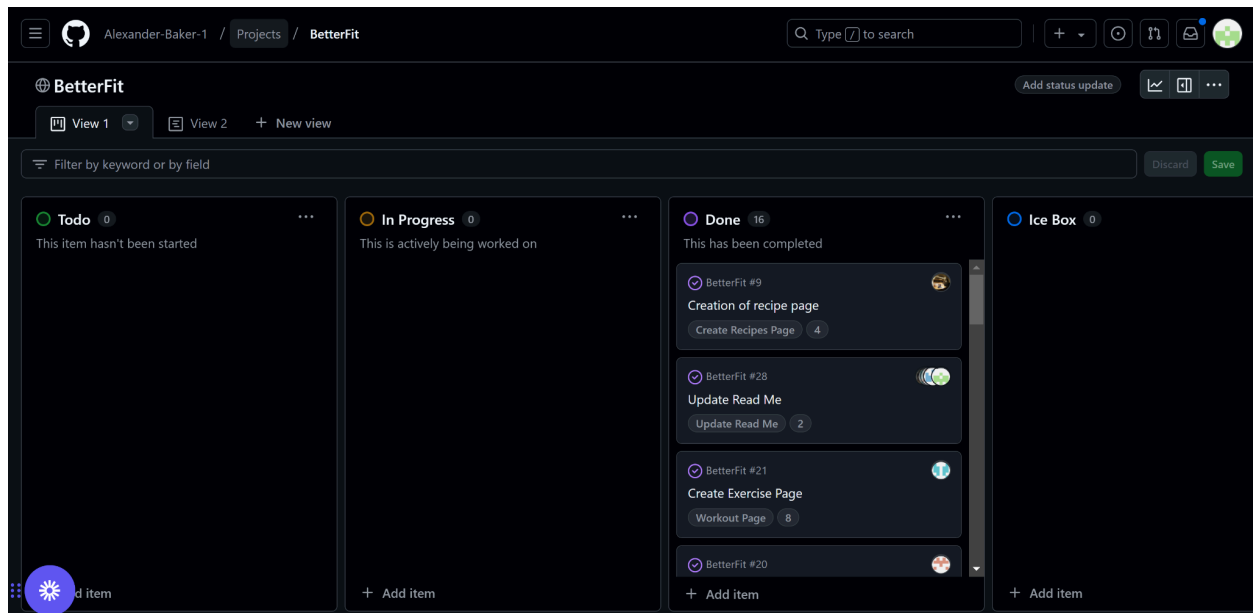
Video:

- Video Demonstration (5-minute or less demo showcasing the project and its features for potential customers.)
- https://www.loom.com/share/59e9405095394ade9544906cffe48312?sid=505094cd-0dc5-4ad5-bc88-2f577e477c2d

---

Version Control System (VCS):

- GitHub Repository: https://github.com/Alexander-Baker-1/BetterFit

The following assets are stored in the repository:

1. Source Code
2. Test Cases
3. Video Demo
4. README.md
5. Project Documentation
6. Project Board

Contributions:

Kayo Abdi:

- Created the exercise and recipe databases, populating the exercise database with approximately 50 unique exercises using PostgreSQL. On the back-end, I implemented

the goals functionality, allowing users to input their goals and display them on the profile page. Additionally, I developed the favorite button functionality, enabling users to save recipes to their favorites, view them on their profile page, and remove them when no longer desired, using JavaScript integrated with the back-end. I also worked on setting up the file system for the project and creating all the initial empty pages to establish the project's foundational structure.
- Implemented backend endpoints for adding and removing favorite recipes.

Alexander Baker:

- Created the login page and added endpoints for login and registration functionality.
- Designed the profile page and implemented corresponding endpoints.
- Utilized Handlebars to display success or failure messages for user actions.
- Configured the deployment environment on Render, including setting up the PostgreSQL database, and deploying the website.
- Developed the front-end interface using Handlebars and CSS.
- Integrated front-end functionality with back-end endpoints.

Miguel Ramirez:

- I created the users database
- I helped fill the exercises database and created the relationship database for users and exercises.
- I created the homepage for the website and the routes for the API for the home page.
- I also created the exercises page and the workouts page for the website along with the API routes for exercises page and workouts page.

Minh Nguyen:

- I created the register page and the navigation bar
- I helped with redesigning the home workout page in order to integrate with exercises page
- I was in charge of all stylistic and UI designs such as logo, color themes, fields, texts, buttons, and formatting with CSS Bootstrap
- I styled and reformatted every page of the website using CSS Bootstrap to meet a consistent theme and standard
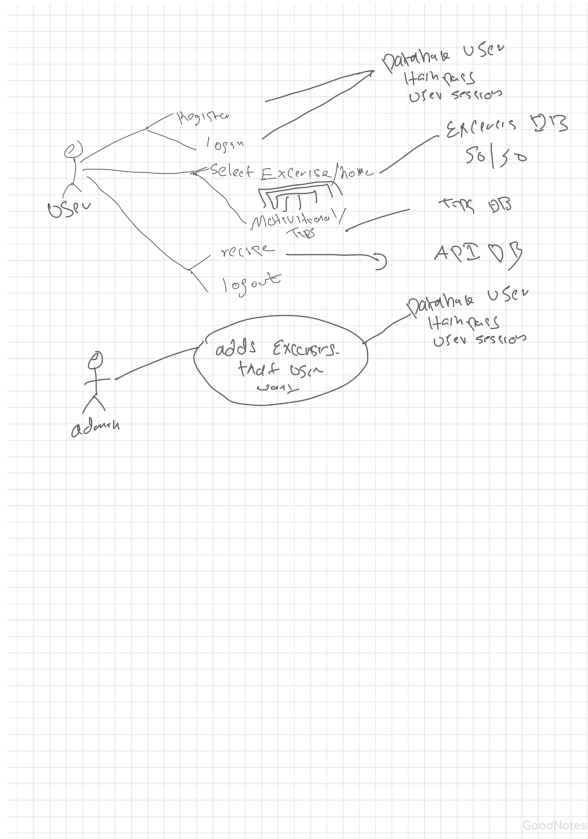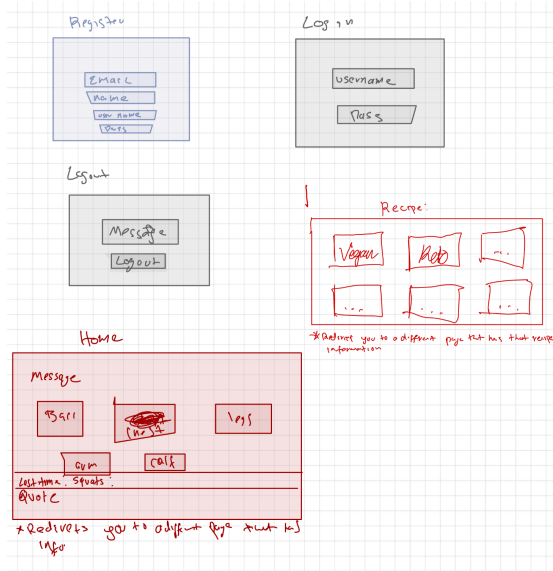- I created the logout page as well as its integration

Yusuf Hanif:

-

Screenshot:

Use Case Diagram:

Diagram:

Wireframes:

Test Results:

The following tests were conducted as part of Lab 11:
1. Login Authentication: Verified secure handling of user credentials.
2. Add Favorite Recipe: Confirmed recipes are stored with user-specific details.
3. Delete Favorite Recipe: Ensured only authenticated users can delete their own recipes.

Observations:
- All test cases passed successfully, meeting the functional requirements outlined in the test plan.

Deployment:

Link to Deployment Environment: https://betterfit-10l8.onrender.com/
Deployment Steps:
1. Application deployed on Render.
2. PostgreSQL database configured on Render.
3. Users can access the application via the provided link and interact with the live features.