BankingMadeSimple

Sharon Mungania

Project Description

- ❑ This project is a banking application, that utilizes a simple and intuitive user interface.
- ❑ It allows users to perform basic banking operations.
- ❑ The application users to create an account, by signing up, signing in, and allows users to sign out securely.
- ❑ Finally, the application allows users to add banking accounts, send and receive money.

Tech Stack

01

React

02

Nextjs

03

Appwrite

04

Plaid API

05

Dwolla API

06

Tailwind CSS and Shadcn

Project Time Goals

Major Highlights and Successes

- The initial idea was to create an application that would support banking processes with minimal tech support inquiries, I have implemented the following features:
  - Sign Up, Sign In, Sign Out,
  - Total Balance,
  - Transaction Overview ,
  - All Transactions, the
  - Transfer Funds functionality,
  - Personalize the application for the user with a “Welcome <first name>” message.
  - Dwolla API integration.

Limitations of the project

- Lack of use of real time data: With the integration of Plaid in the application, I was not able to pull real user data so I am using simulated data instead.
- I did not have a budget, which limited me to using the sandbox mode for Plaid and Dwolla, with a budget and pushing the application to production, I would be able to achieve more advanced functionalities.
- If I had more time, I would spend it on project documentation to ensure a more seamless development process, for instance, I would have handled the paid and pricing options of both Dwolla and Plaid APIs earlier.

Project Updates and Changes since Midterm

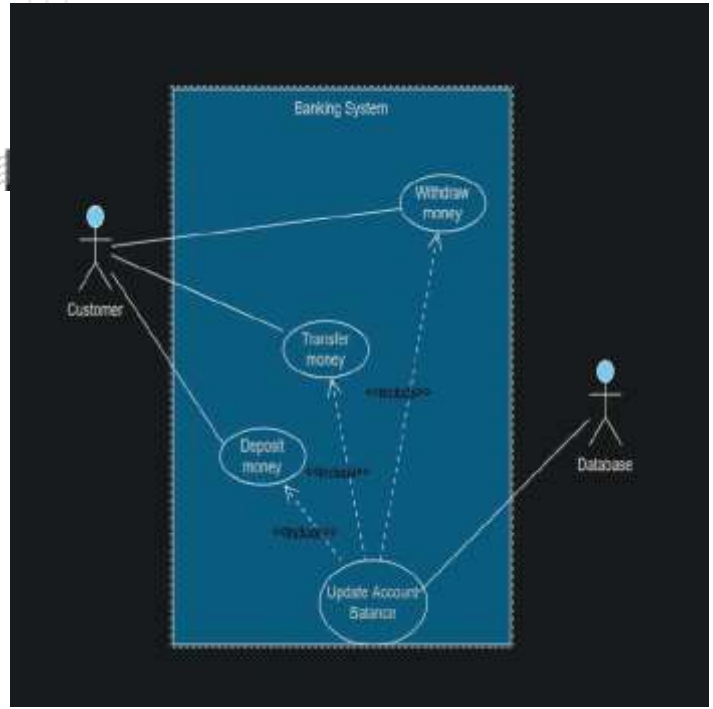
Key Improvements

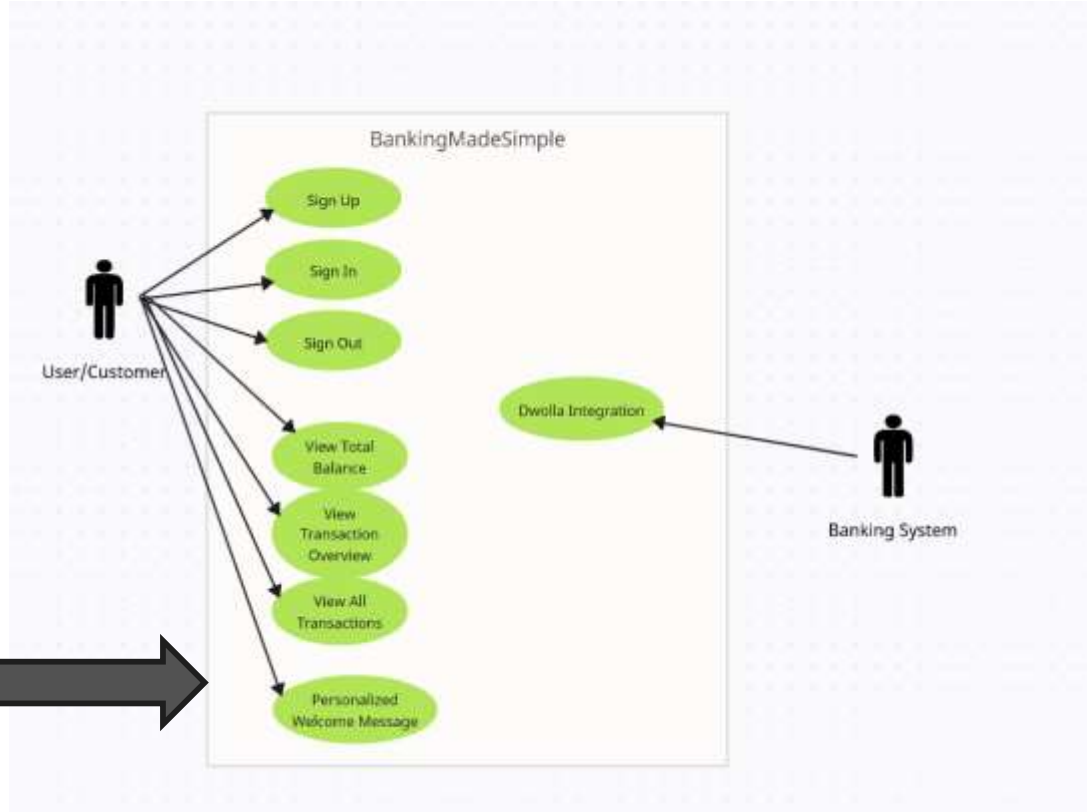
- ❑ Tech stack discussion for any interested stakeholders.
- ❑ UI changes: Changing the ‘Check Balance’ to the ‘View Total Balance’ use case which is displayed on the application as ‘Total Balance’ for ease of usability.
- ❑ Updated the use case diagram capturing the functionalities as displayed on the system.
- ❑ The initial idea was to implement a solo bank account platform, but I decided to triangulate more bank accounts, which led to the exploration and integration of Plaid, an API, in sandbox mode, to reach a wider scope of users, all while integrating more banks.
- ❑ Moved from Railway which was the intended deployment site to Vercel.
- ❑ Overall Project Progress: Made progress from wireframes to a real implementation.

Negative changes

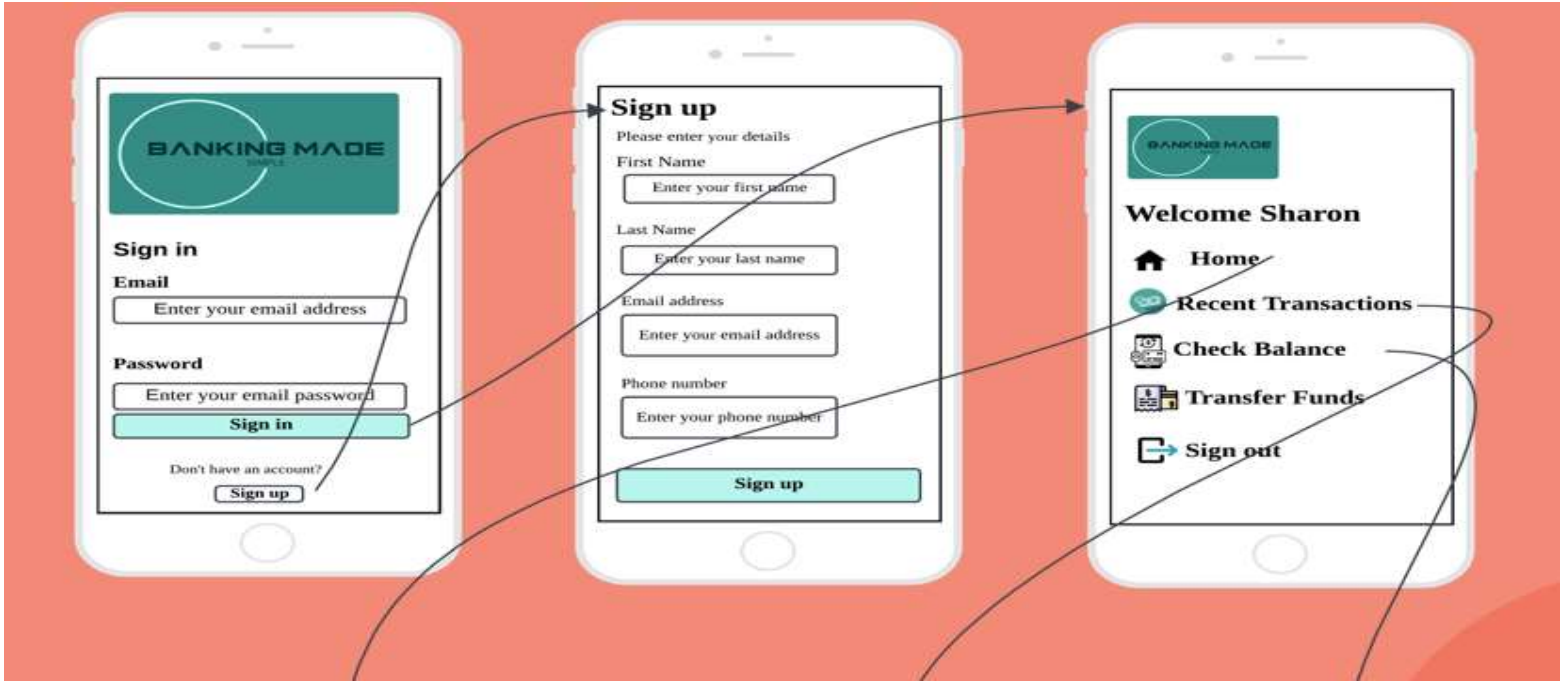
- ❑ Scope Creep with the introduction of Plaid.
- ❑ Limitation to simulations of the project rather than a real implementation of the project, by having a project budget I will be able to address these issues, utilizing the paid versions of Plaid and Dwolla APIs.

Use Case Update Illustration

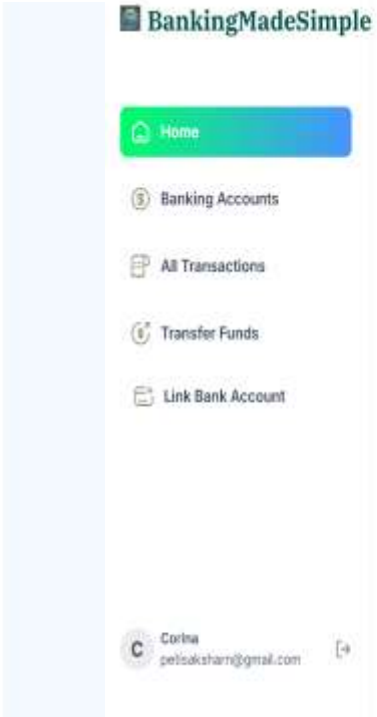


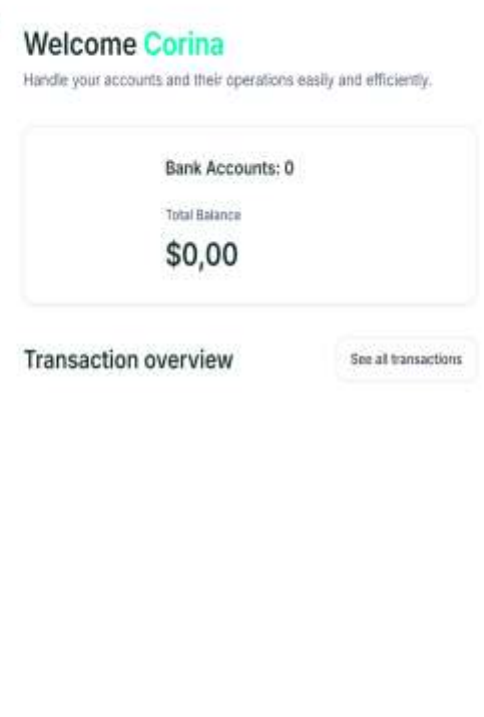


Project Wireframes as at MidTerm



Project Implementation





Project Demo and Implementation

Project Installation and Deployment

- Please navigate to the repository here: https://github.com/KawiraSharon/GVSU-CIS641-Soloscribe
- Navigate to the README.md file at the bottom of the repository.
- Under Run Instructions, you will find a step-by-step guide on how to install the program to your local machine, run and deploy the application.

Sources and References

- Slidesgo for Slides Template
- Systems Analysis and Design: An Object-Oriented Approach with UML By: Alan Dennis; Barbara Wixom on the Waterfall model and Gantt charts for project management
- ChatGPT AI
- Professor Fredericks Notes on Systems Analysis and Design

Thank you!