

Indy 12 College Student Budget App (Frugal U)

4850-01 Senior Project

Spring Semester 2024 Sharon Perry

Frugal U Prototype Presentation

Team Members: Joshua Schoen, Chase Mo, Logan Getzfred



Joshua's Contributions To The Project

Discovery

- Brainstormed idea
- Determined app based on college experience
- Researched existing college student budget apps
- Decide on custom app

Joshua's Contributions To The Project

The Project plan

- Created written part of the documentation which includes: Formatting the headshots, the enhanced overview, creating the deliverables, the Milestone events, communication and collaboration plan, and the version control plan.

The Requirements Document

- Created entire requirements document, using the template from professor Perry which includes: Overview, project goals, definitions and acronyms, assumptions, design constraints, Environment, user characteristics, functional and non-functional requirements, external interface requirements, and the glossary.

The Final Report

- Will help create the final report, and the website for the final application. My side project is coding a website for a company as a result I've relearned lots of HTML, CSS and JS to create a functioning website.

Joshua's Contributions To The Project

External to the documentation, as the project leader I was in charge of multiple things.

- Created the organization github for the application itself.
- Organized all the MS team meeting and constantly communicated with the group to make sure we had clear deadlines and tasks.
- Communicated with professor Perry and constantly updating our status including some miscommunication regarding the apps name and direction.
- Worked consistently with developer to get status updates on the application. and learning about github and pulling and pushing things to our github.

Joshua's Contributions To The Project

Additions to the actual application itself

- Created the required Mockup along with Chase, and setup expo using the cmd for the demo app using react native (which will be completed in the 2nd week of April).
- Worked with the application developer (Chase) to debug and troubleshoot the app on an android emulator as a form of black box testing.
- Currently creating the API and linking it to the resource button which will be completed in the first week of April well before the final app is due.

Logan's Contributions

Assisted in creating the Project Plan

Created the Design Document

- Created the design document, which includes details regarding the overall planned flow and functionality of the application such as visual elements within the UI.

Logan's Code Contributions

Additions to code as of now:

- Added more functionality to account creation, specifically error handling.
 - *Before you create an account, it now checks to see if both the email addresses you entered match. It does the same for passwords as well as making sure the password meets a set length requirement.*
- Edited to force the account creation screen to stay up when there is an error instead of moving the user to the homepage with an empty user account.

Logan's Future Contributions

I will be helping Joshua with the creation of the Final Report of the project, as well as full proofreading of the written submission(s) and testing of the final product.

I will also be assisting in future code implementation with Chase going forward.

Chase's Contributions

Final Group Mockup and Design of Application

- Utilized Figma to create a final mockup of our budget application
- Designed interface for application for login, account creation, homepage tabs, and budgeting functionality
- Developed and tested application with React Native and Expo

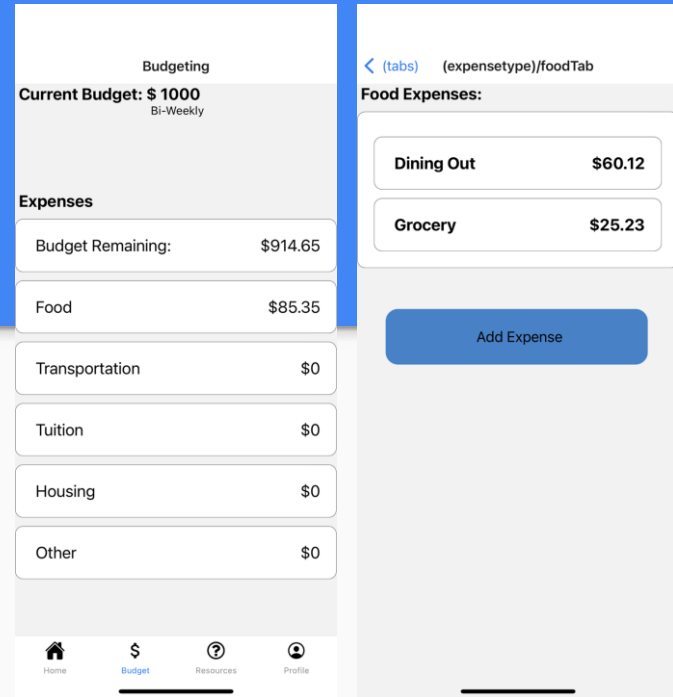
Login and Create Account Functionality

- Used Google Firebase authentication to create user login and account creation functionalities
- Allows users to input personal and budget information to store inside database
- Displaying proper user information and data by pulling from database
- User stays logged in, data added into database is user specific, and users are able to logout

Chase's Contributions

Main Budget Functionality

- Takes budget amount and frequency from user to create a budget plan
- Allows users to add an expense in the desired category, with an amount and description
- Expenses are stored in Firebase and pulled to display in a list for each expense category
- Expense totals are calculated and displayed in each category, updating from the database with each addition



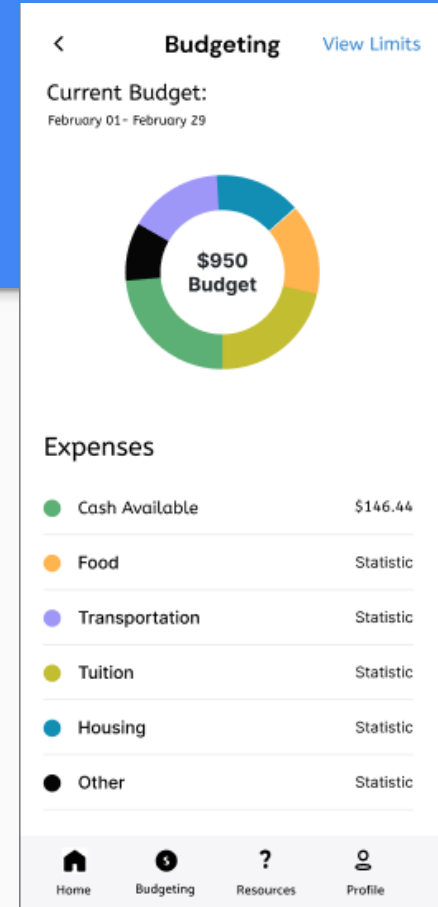
Future Additions

Charts and Graphs

- Visuals will be utilized to display budget information such as percentages and totals to the user
- Will update real-time with data from database and will be included in the home and budget pages

User Interface and Error Handling Improvements

- User interface of the application will be improved to be more intuitive and easier to navigate for the user
- Improved error handling will be included to inform users and prevent unwanted functionalities



App Demo

Here is the demonstration of the app. (Around 2 and a half minutes)

[INDY 12 College Student Budget App \(youtube.com\)](#)