

INDY 12: College Student Budget App

CS 4850 - 01 Spring 2024

January 29th, 2024

Head Shots with Student Names

Joshua Schoen



Logan Getzfred



Chase Mo



Project Team

| Roles | Name | Major responsibilities | Cell Phone / Alt Email |
|----------------------|----------------|--|--|
| Project owner | Joshua Schoen | Listed below | 404-457-5517 joshuaschoen@outlook.com |
| Team leader | Joshua Schoen | Documentation Project lead and one of two communicators for creating all required documents to ensure our success. | 404-457-5517 joshuaschoen@outlook.com |
| Team members | Chase Mo | Development Creating core functionalities of the app and final product, along with providing the documentation and code. | 678-373-2321 cmo23006@gmail.com |
| | Logan Getzfred | Documentation The latter of the two communicators tasked with creating the required documents, as well as staying in touch with the developer to ensure progress and success. | 678-882-2054 lgetzfred2000@gmail.com |
| | | | |
| | | | |
| Advisor / Instructor | Sharon Perry | Facilitate project progress; advise on project planning and management. | 770-329-3895 |

-END OF COVER PAGE

Enhanced Overview

The college student budget app will be a sort of quasi-financial app for the average college student. Since half of college students either drop out because of money problems, half of college students don't have a personal budget. This mobile app which will be free for all students will help keep track the main factors that's hurting a college student: Tuition, food costs (going out to eat and buying food at a grocery store), transportation, books. This app will mainly cover college student unique costs, so there won't be any functionality for things like mortgages, car payments, credit card debt etc.

The application will have a simple UI, a tab for each main college expense, and possible sub-tabs for expenses that are more vague like food, and transportation etc. The college student will enter how much money that they make according to their payment plan: Weekly, Bi-Weekly, Semi-Monthly etc and there will be buttons for them to enter purchases. The app will calculate their monthly expenditures in their respective tabs, and calculate most common purchase for their respective categories. The app will also suggest ways based on their purchases if there exists cheaper options that don't significantly drop in quality. So shopping at aldi instead of publix or a better payment plan for tuition that pays it off quicker and saves money in the long run. There will

probably be some 2fa or some extra security as well. The student's bank account will not be connected to the application, it will simply be a logging system that they can see and track all their purchases in an easy to see simple UI. Note that it will not auto-calculate anything, it would be up to the individual student to manually input all their purchases for their respective categories which will be held in a MYSQL database. The application will be made with Expo.dev, which uses react native framework, (HTML, Javascript, CSS, typescript (correct me if I'm wrong) and node.js to connect to the database.

Deliverables

- Project Plan
- Requirements And Design Documents
- Completed functional Database
- Completed Prototype Source Code that connects to the database via APIs.
- Completed Prototype
- Code Review/Testing (Just putting this here atm let me know if you want to do this or not)
- Completed Functional Source Code that checks all requirements
- Completed Github Repo with all necessary files that checks all requirements, such that if an experienced programmer wanted to check out the finished application they could.
- Completed Fully Flushed Out Mobile Application that checks all requirements and is deployable for the google play store (and maybe cross-compatible for IOS I don't know what apple uses for mobile apps, (app store?))
- Completed Final Report
- Completed Final Project Package

Milestone Events (DISCUSSION AND GANTT CHART)

-Completed Documentation (Requirements and Design), these should be fully fleshed out like the blueprints for a house.

-Completed Database will have all the necessary information, tags, such that information can be stored and retrieved and displayed to the User.

-Completed Prototype (Completed UX and UI Design, with full API functionality) which will be a sample version of the mobile app before we implement peer review feedback to create the fully fleshed out application.

-Completed Application with Peer Feedback, Completed, Final Report and Github Repo, and finally the Project Package these will be the entire SDLC work all we've done all semester in both of these places.

Meeting Schedule Date/Time (DISCUSSION)

We're meeting on MS Teams once a week Friday to discuss progress.

Collaboration and Communication Plan (DISCUSSION)

We're going to talk in person, and on group me. Potentially every Monday and Wednesday before roughly 1 hour before class starts.

We'll meet 2 times a week, and use our github for collaboration. Joshua will be the one taking meeting notes.

We will use MS teams to communicate with professor Perry.

Project Schedule and Task Planning (GANTT CHART)

| Project Name: College Student Resource App | | College Student Resource App | | | | | | | | | | | | | | | | | |
|--|--|------------------------------|----------------|------|------------------------|----------------------------------|-------|-------|-------|---------------------|-------|-------|-------|-------------------------|-------|-------|-------|--------------|-------|
| Report Date: 1/30/2024 | | 1/30/2024 | | | | | | | | | | | | | | | | | |
| Deliverable | Tasks | Complete% | Current Status | Memo | Assigned To | Requirements and Design Document | | | | Completed Prototype | | | | Code Review And Testing | | | | Final Report | |
| | | | | | | 01/08 | 01/15 | 01/22 | 01/29 | 02/05 | 02/12 | 02/19 | 02/26 | 03/04 | 03/11 | 03/18 | 03/25 | 04/01 | 04/08 |
| Requirements | Meet with stakeholder(s) SH | 100% | complete | | Joshua Schoen | | | 1 | | | | | | | | | | | |
| Completed Prototy | Define requirements | 0% | In Progress | | Joshua Schoen | | | | 5 | | | | | | | | | | |
| | Review requirements with SH | 0% | In Progress | | Joshua Schoen | | | | 3 | | | | | | | | | | |
| | Deliever requirements Document | 0% | In Progress | | Joshua Schoen | | | | 2 | | | | | | | | | | |
| | Complete Design Document | 0% | | | Josh and Logan | | | | 2 | 6 | | | | | | | | | |
| | Create Functional Database | 0% | | | Josh and Chase | | | | | 8 | 2 | | | | | | | | |
| | Complete Prototype Source Code | 0% | | | Logan and Chase | | | | | | 4 | 4 | | | | | | | |
| Code Review & Te | UX/UI design | 0% | | | Chase Mo | | | | | 2 | 2 | | | | | | | | |
| | Complete Prototype | 0% | | | Logan and Chase | | | | | 2 | 8 | 8 | | | | | | | |
| | Code Review-Testing | 0% | | | Chase, Josh, and Logan | | | | | | | | 2 | 2 | | | | | |
| | Complete Functional Source Code | 0% | | | Chase Mo | | | | | | | | 4 | 4 | | | | | |
| | Complete the Github Repo | 0% | | | Chase, Josh, and Logan | | | | | | | | 4 | 3 | 3 | | | | |
| | Complete Mobile Application | 0% | | | Chase, Josh, and Logan | | | | | | | | | 3 | 3 | | | | |
| Final report | Test product & Create Presentation | 0% | | | Chase, Josh, and Logan | | | | | | | | | | 3 | 6 | | | |
| | Complete Final Report | 0% | | | Chase, Josh, and Logan | | | | | | | | | | | | | 5 | |
| | Complete Final Project Package | 0% | | | Chase, Josh, and Logan | | | | | | | | | | | | | 5 | |
| | Final report submission to D2L and project owner | 0% | | | Joshua Schoen | | | | | | | | | | | | | | 1 |
| Total work hours | | | | | 104 | 0 | 0 | 1 | 12 | 6 | 16 | 16 | 8 | 10 | 12 | 6 | 6 | 10 | 1 |
| * formally define how you will develop this project including source code management | | | | | | | | | | | | | | | | | | | |
| Legend | | | | | | | | | | | | | | | | | | | |
| Planned | | | | | | | | | | | | | | | | | | | |
| Delayed | | | | | | | | | | | | | | | | | | | |
| Number Work: man hours | | | | | | | | | | | | | | | | | | | |

INSERT a screenshot of your Gantt Chart INTO your Project Plan and then submit the document separately as an excel file or pdf.

Other Planning - Like Risk Assessment (Optional, not required)

- Couldn't get feedback from peers fast enough, leading to a delayed final application.
- Internet connection problems and lack of communication from team members leads to a delayed prototype/final product.
- More work than the developer realized, leading to a delayed prototype and or final application.

Version Control Plan (DISCUSSION)

We have created an organization github to post all of our documents into. This is what we're using as a version control plan.

DELIVERABLE INSTRUCTIONS

Save project plan document as a file named ProjectNumber-ProjectTitle-ProjectPlan.docx or .pdf.

Submit Gantt Chart as ProjectNumber-ProjectTitle-GanttChart.xls or .pdf.

Do not submit a zip file.

Last step is to submit the doc/pdf files to D2L by the due date.

NOTE YOU ARE SUBMITTING TWO FILES !

No zip file or email submissions are accepted.

Late penalties of 10% per day are in effect for this assignment.