

System Test Plan and Report

for

Sp-26 Green Budget App

CS 4850 - Section 01 – Fall 2024

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Requirements

Features

- Ability to create an account
- Ability to login
- Ability to make a profile
- Ability to store data in Firebase
- Ability to navigate to other pages
- Ability to input/edit data into each page with a budgeting tool
- Budgeting tools (across all pages) that include:
 - 1) display of current balance*
 - 2) display of monthly income*
 - 3) upcoming bills tracker*
 - 4) spending summaries*
 - 5) debt payment reminders*
 - 6) sections that are general financial advice*
 - 7) an insights section about the user's financial habits*
 - 8) a section tracking the users' transactions for that month*
 - 9) a pie chart of the money needed for each of the user's monthly expenses, divided into categories*
 - 10) a 'goals' section for things the user wants to save for*
 - 11) a bar graph tracking user's top spending across multiple months*
 - 12) net income calculator*
 - 13) compare spendings to budget tool*
 - 14) tool to calculate take-home money after taxes*
- 2 factor authentication

- Ability to recover an account if lost password/username/email
- Ability to delete an account (which wipes data from database)
- Integrate with Plaid API

UI:

- Authentication page(s)
- Header (with logo and settings button)
- Navigation bar
- Home page
- Transactions page
- Budget page
- Overview page
- Settings/Profile page
- Bar graph
- Pie chart

Test

<i>Requirement</i>	<i>Pass</i>	<i>Fail</i>	<i>Severity</i>	<i>Comments</i>
Create account	✓		N/A	Integrated with Firebase
Login	✓		N/A	Integrated with Firebase
Authentication Page(s)/Widgets	✓		N/A	Works successfully
Storage of Data in Firebase	✓		N/A	Working for login system (account username and password), still needs to be implemented for data storage
Navigation Bar and Buttons	✓		N/A	Shows up, all buttons work
Header (with Logo Icon and Settings Button)	✓		N/A	Shows up, settings button works
Home Page/Widget	✓		N/A	-Need to complete subsections (which are 'Upcoming Bills', 'Spending Summary', 'Debt Payments', and 'Tips and

				<p>Insights’) and make their buttons clickable</p> <p>-Need to make current income and monthly income editable</p>
Transactions Page/Widget	✓		N/A	Need to remove placeholder data and make transaction data editable
Budget Page/Widget	✓		N/A	Need to remove placeholder data and make budget data editable
Overview Page/Widget	✓		N/A	Need to add other sections from mockup to this page (which are a ‘Net Income’ section, and an ‘Other Tools’ section)
Settings/Profile Page/Widget	✓		N/A	Need to remove placeholder data and make profile data editable
(2FA) 2 Factor Authentication		X	Medium – app can function without it, but considering it	Not implemented yet, still needs to be

			is a financial app, 2FA is important to have	
Account Recovery		X	High – likelihood at least some users will forget username/pass word is high	Not implemented yet, still needs to be
Delete Account		X	High – some users will want to delete their data, and we should allow that to clear up space for our database	Not implemented yet, still needs to be
Plaid Integration/Bank Account Linking		X	Low – app can function without full bank integration	Plaid informed us that they will only allow us to use a sandbox for this application (since we cannot afford their full services), so we can't test it out with actual bank accounts. Because of this, we decided to make a 'manual mode' for the app (in which the user inputs

				all their data) and then have a 'bank account example mode' that just uses the data from sandbox as an example. We still need to replace the placeholder data and implement both of these modes
Budgeting Tools Bar Graph	✓		N/A	Works, just need to edit so that it updates when user edits their data
Budgeting Tools Pie Chart	✓		N/A	Works, just need to edit so that it updates when user edits their data