

Software Requirements and Design Document

For

Group 5

Version 1.0

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1. Overview (5 points)

Create a personal budget web app that tracks investments, savings and spending information. Give users the opportunity to connect with their personal bank through the Plaid API to get real time updates of their spending habits. The features will have an admin panel/administrative role that has user credentials, account type, and user count. The user will have the features of the budget, spending, income, transaction history, subscription tracker, and investments. There will also be login authentication, category tracking, and the option to add manual transactions

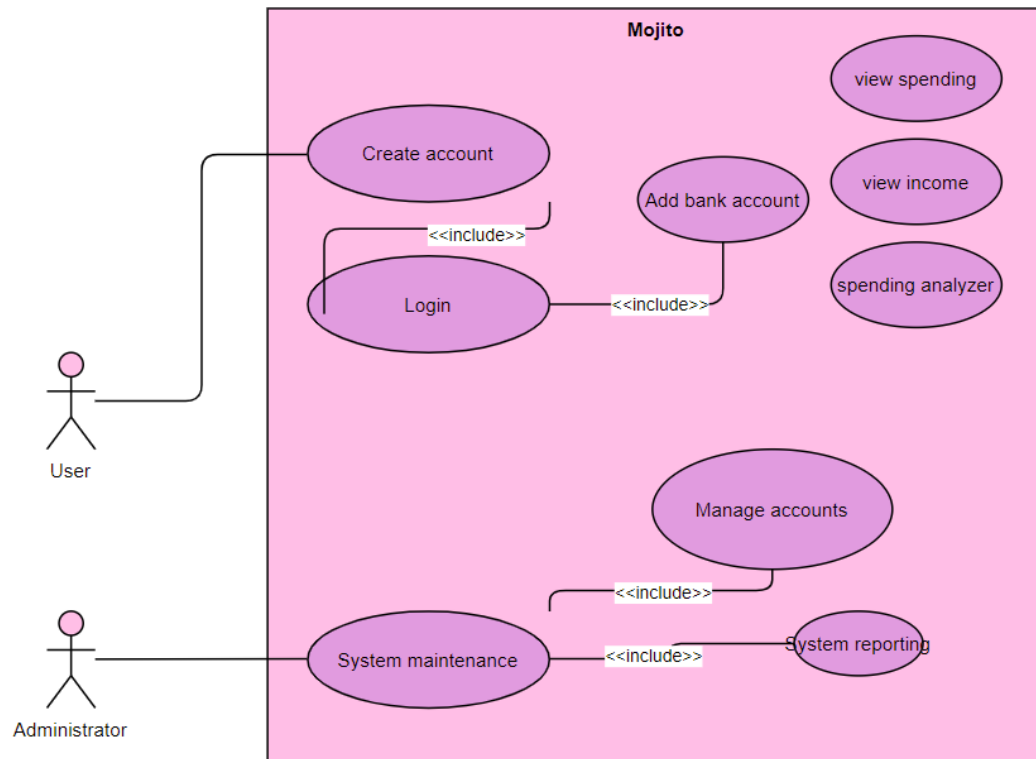
2. Functional Requirements (10 points)

1. SQL functionality where an example user's information could be accessed from the database and displayed on the screen. Medium.
2. Auth 0 API allowed the user to sign in with a. username and password, or just sign in with Google. This feature makes it easier for a user to login, rather than having them make a completely new account, they can use their Gmail. Medium.
3. Ability to connect to your bank(just sandbox mode for now, so real bank account is not being used). This allows users to update their budget live, and provide access to their bank accounts. High Priority.
4. Database with user table is functioning, but we have not populated any data to it yet. This allows for accurate representation of information from the user. Medium.
5. Added charts with the information regarding income, expenses, and investments. Low.
6. Buttons for navigation to different pages. Low.
7. Logout feature. This feature provides a safe way for the user to keep their information protected from other users. Low
8. Navigation to twitter Instagram, and other social medias from the dashboard page. Low.
9. Ability to populate information regarding your transactions. Medium.
10. Dashboard functionality takes you back to the main page. This allows for easy navigation from the user from page to page. Low.

3. Non-functional Requirements (10 points)

1. Users of the Mojito app system shall authenticate themselves using their gmail account. Derived by the authentication system using gmail.
2. Mojito users shall be able to use the system at all hours of the day.
3. Mojito users' bank account information shall not be accessed by a user that is not them. This means that only the person who is tied to the bank account can see the bank information/budget. Derived by the need to keep bank account information private.
4. Mojito shall be able to store the bank account information.

4. Use Case Diagram (10 points)



5. Class Diagram and/or Sequence Diagrams (15 points)



6. Operating Environment (5 points)

Describe the environment in which the software will operate, including the hardware platform, operating system and versions, and any other software components or applications with which it must peacefully coexist.

- Hardware Platform: Amazon EC2 t2.large (2 vCPUs, 8GiB memory, 16 GB EBS Volume SSD), 64-bit (x86)
- Operating System: Linux kernel 4.14, Ubuntu 20.04 LTS
- Other: systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1

7. Assumptions and Dependencies (5 points)

Assumptions:

- The Plaid API continues to allow sandbox development mode. We also assume that they will allow us to move forward to the development part of the API so that we can start to integrate our own data. If not, we will have to move forward with dummy data
- The free SQL database we are using continues to be free and allows multiple tables such as we will be needing
- The Twilio API works and has all of the API calls that we need in order to send text messages to our users

Dependencies:

- Vercel continues to allow React applications to be hosted on their platform so when the time comes for deployment, we can still make sure everything is integrated properly
- Tailwind css continues to work alongside React and that any updates do not cause errors with other dependencies