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BudgeIt

Project initial design: Your project’s initial design should include: a title; short description of the topic, problem(s) to be addressed, and goals of the project; a brief “vision” of the user experience (in the form of a mock-up interface, a user-manual, or an equivalent way to show that you have thought out what the user will be able to do and how s/he will be able to accomplish it); a high-level design (major modules block diagram, their purpose and functionality, how they interact/communicate with other modules, or an comparable way to show how you'll implement your project); and a list of “deliverables,” i.e., what will be delivered at the end of the semester. **Important Note:**you should plan very carefully for whatever external hardware/software support you will need to complete your project. Many projects for this course have required installations of specialized software (servers and/or server extensions, special developement environments, to name a few). Ideally, all projects should be implemented on the WebLab facility; our System Administration staff must be informed as early as possible of any needs/requirements so they can address all installation needs. **You must get my approval of your project; submit your project proposal early!**

Useful Tools:

* Firebase
* Plaid
* Materialize or Bootstrap

Notes:

* Login as new user or guest using Firebase
* Once signed in, the user should be able to see:
  + Dashboard Summary
    - This page should show your entire balance of all accounts synced in
    - Average spending and income
      * Show the user how much they spent on:
        + Restaurants and dining

Chick Fil-a, 99s, etc.

* + - * + Shopping and Entertainment

Games, Netflix, Disney+, other subscriptions

* + - * + Home and Utilities, etc.
    - Transactions
      * Subscriptions and Bills
    - Cash Flow:
      * Show how much the user deposited and withdrew within a month of that current year
  + Profile with settings
    - Add or remove bank account with Plaid API
    - Bank Of America, Fidelity, TD, Robinhood, etc.
    - Change username and password
  + Goal Sets:
    - This page should allow the user to set goals and spending limits
      * Lets the user know if they spent too much on food, games, entertainment, etc.

Potential Addons:

* Investments

Goals:

* Keep track of withdrawals and deposits
* Add any personal bank account to the app
* Add investments
* Calculate total income and spending habits
* Give the user the option to set spending limits, for instance if the user has spent more than $100 on food within a given time period, he should get a notification to watch out.