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Softdev pd1
P#02: PepperMint
2020-01-06

Roles:

- David Xiedeng - Project Manager
- Eric Lam - Database/Backend
- Vishwaa Sofat - Front end/API implementation
- Emory Walsh - Front end/smaller backend tasks

Project Description:

Our project is a budget management application. Users will be able to record their expenses and allot a budget. They can set a budget and our website will tell them if they are saving or overspending. We'll alert them in instances where they are in danger of going over the budget. We'll also have features to see trends in their expenditures over time and how much they have saved.

APIs:

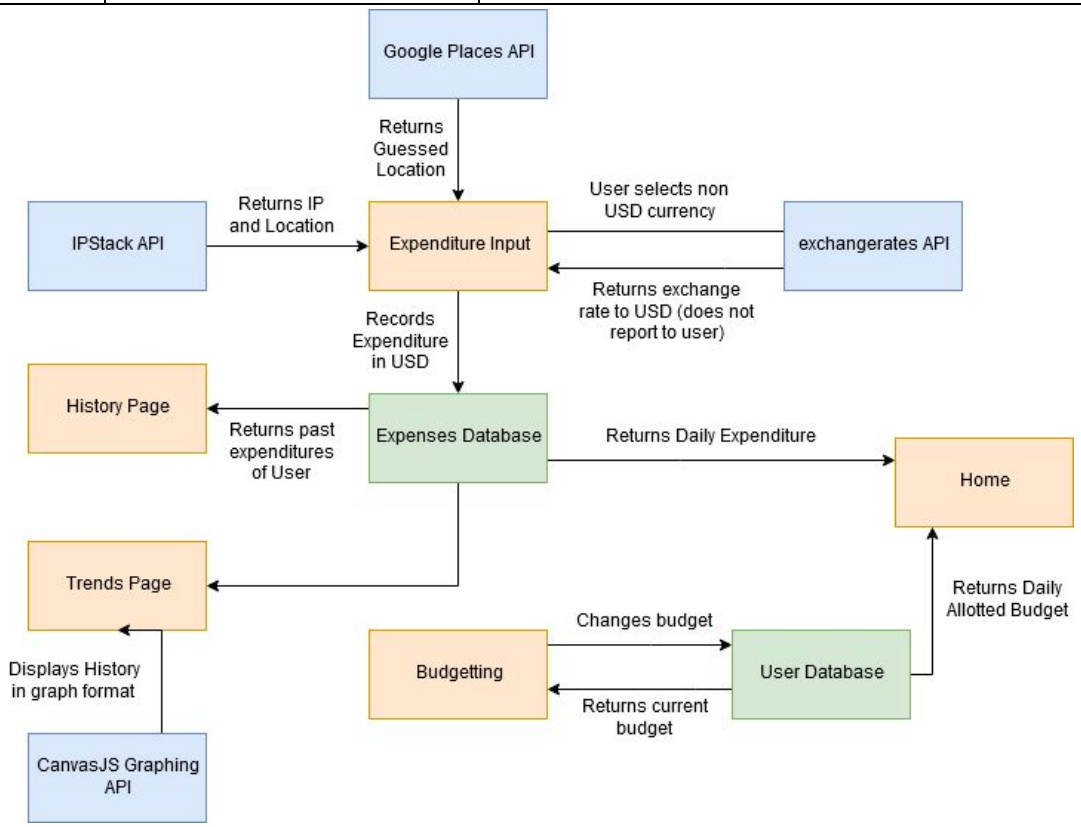
- exchangerates API - for when the user does not use USD; <card>
- IP Stack API - quick input of expense if user has the ip of the restaurant/business; <card>
- Google Places API - search for nearby locations to quickly add expenses; <card>
- CanvasJS Graphing API - javascript API; for better visualization of trend; <card>

Framework:

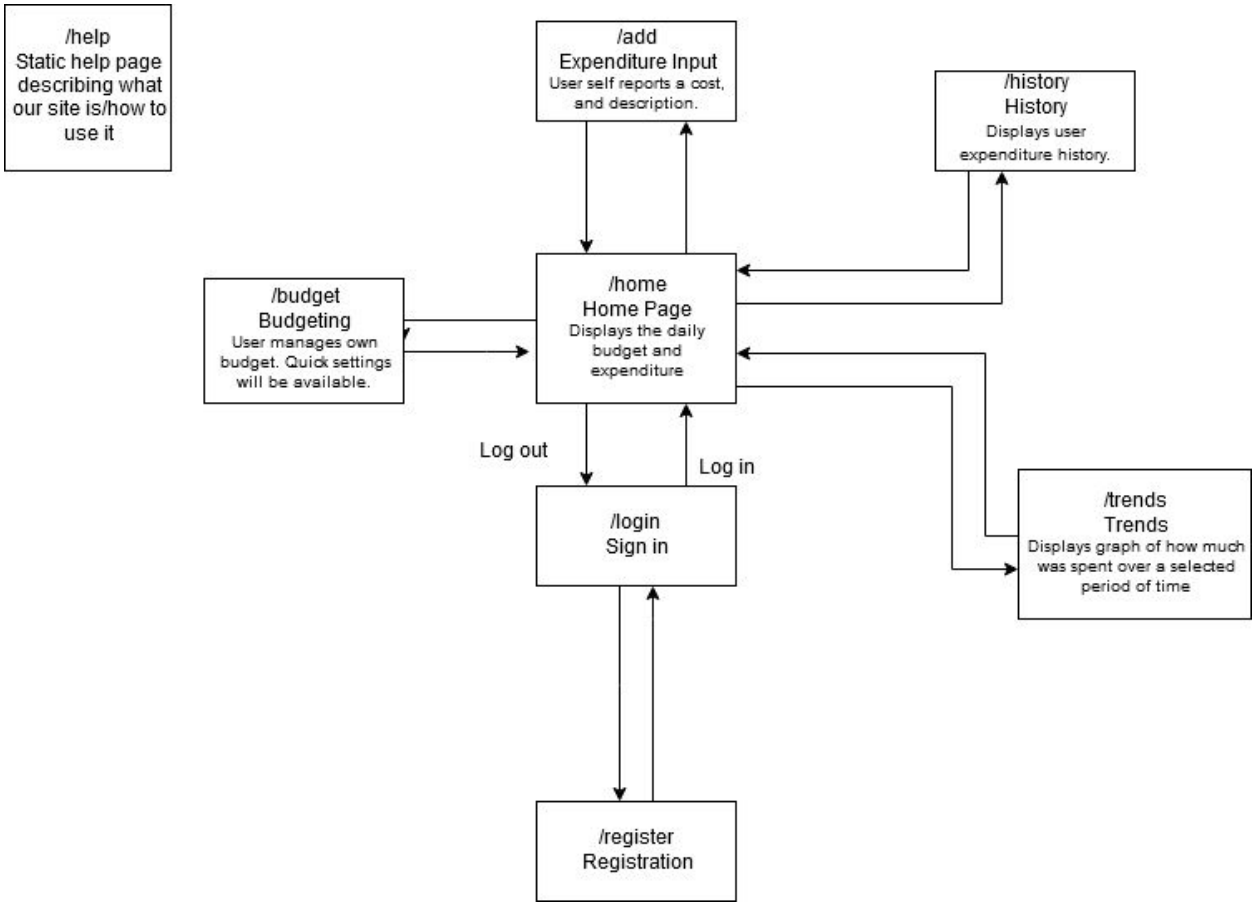
Bootstrap - Our members are more familiar with Bootstrap than Foundation.

Component Map:

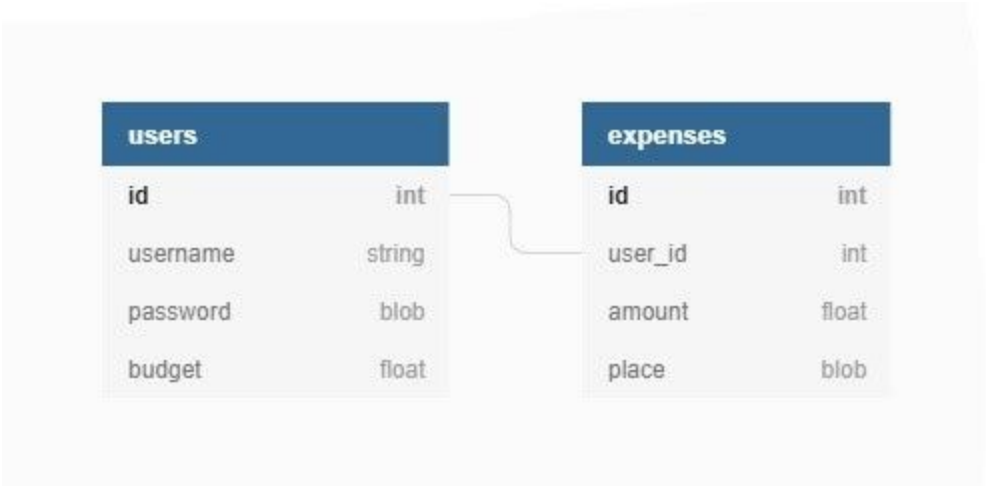
Feature	Backend	Relationship
Accounts	users	Register by inserting into users table; log into accounts by checking credentials
Expenses	expenses	Add new expenses by inserting into expenses table; query expenses table to show current expenses, etc.
Budgets	users	Add new budget by modifying budget row in users table, etc.
Alerts	users, expenses	Check for alerts by querying the budget and summing expenses
Locations	Expenses, Places API	Show nearby locations by querying the API; add your own location
Graphs	expenses, CanvasJS API	Create graphs by querying data from expenses table and sending the data to the API



Site Map:



Database:



MVP:

- User Accounts
- Daily budget allotment
- Expenditure input
- Alert when expenses approach/exceed daily budget allotment

Extra Features:

- Investments
- Bills
- Extra security features