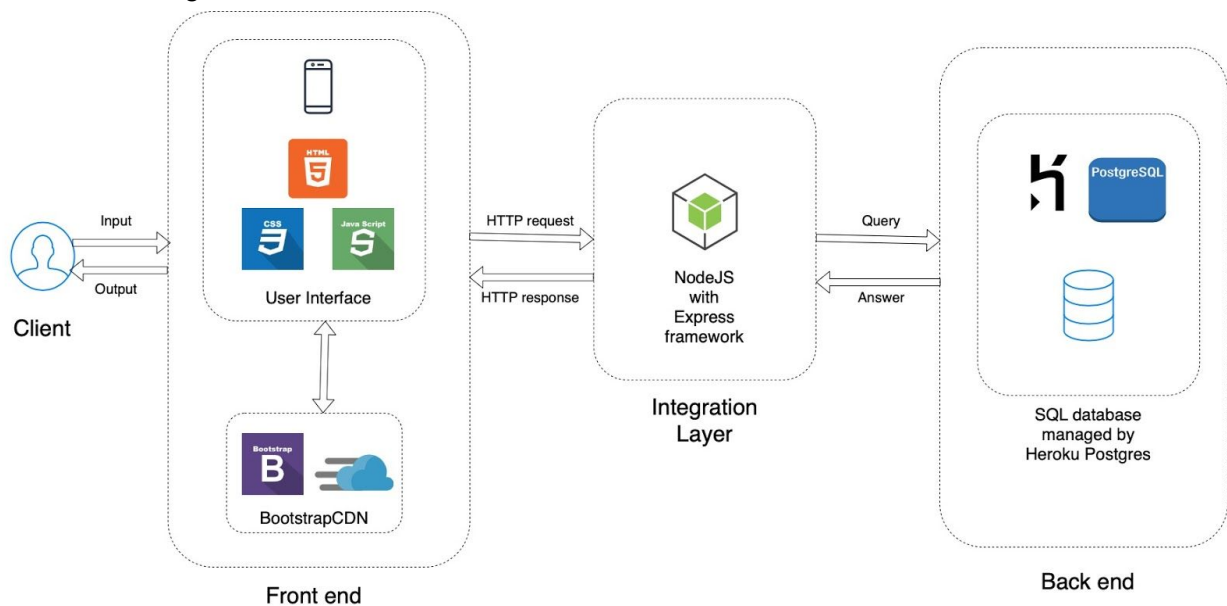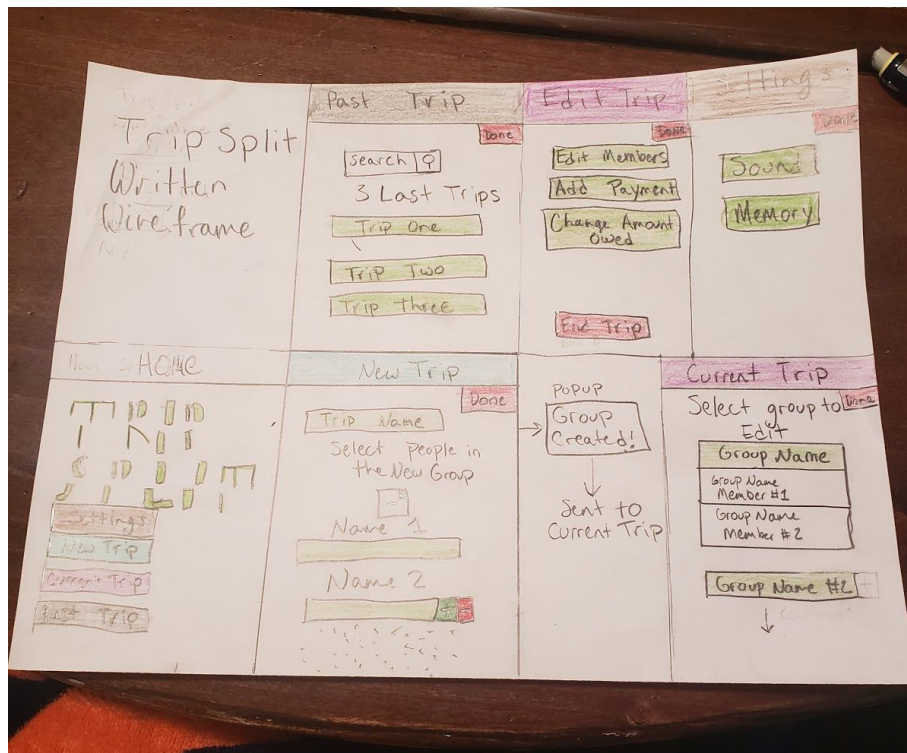# Milestone 4

Features (in order of importance)

- Group Tracking
  - Feature to keep track of all members of a group and how much each person has contributed to group expenditures.
- History Database
  - This feature is an archive of previous trips that are no longer being updated. They can be viewed and the group members can be copied and added to a new split trip trip
- Identification Login
  - A secure login feature to access a user's trips, archive and to create new ones. As well as access paypal integration tho i dont think we are doing that anymore.
- Graph/Display
  - A graphical representation of the division of trip funds to simply and easily present how the money has been split among the trip members.

Architecture Diagram:

Front End Design:

Web Service Design:
- We will be using Heroku cloud hosting. Heroku supports nodeJS and PostgreSQL, which we will be using to manage our database (shown below) and reflect those changes in our front-end.

Database Design:

POSTGRESQL

Members
member_id	INTEGER (primary key)
first_name	VARCHAR(20)
last_name	VARCHAR(20)
amount_paid	REAL
amount_owed	REAL

Transactions
transaction_id	INTEGER (primary key)
group_id	INTEGER (foreign key)
member_id	INTEGER (foreign key)
description	TEXT
transaction_amount	REAL
transaction_date	DATE

Groups
group_id	INTEGER (primary key)
group_name	VARCHAR(20)
members_id	INTEGER [ ] (foreign key)
num_members	SMALLINT
total_expenses	REAL