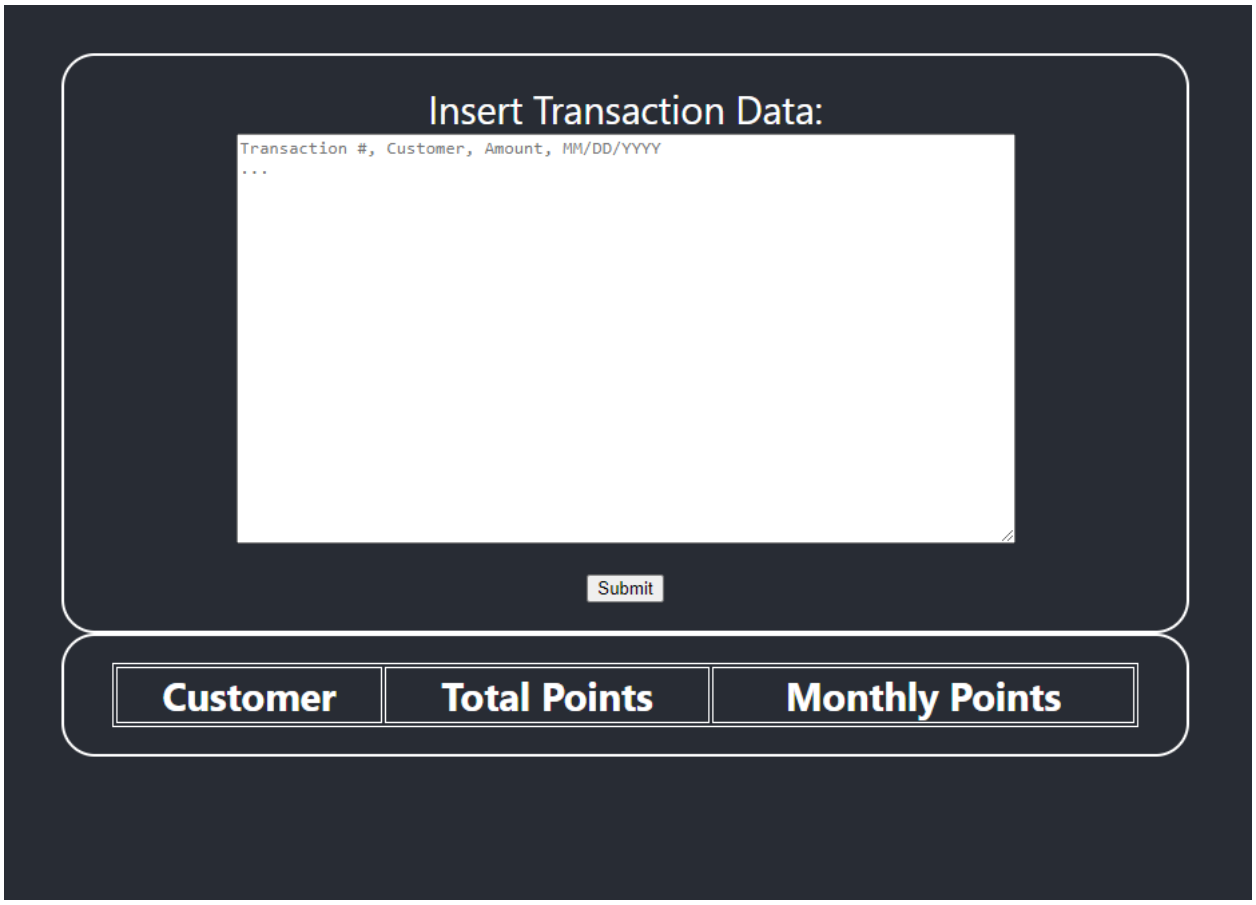
Rewards Calculator

RUNNING THE APPLICATION:



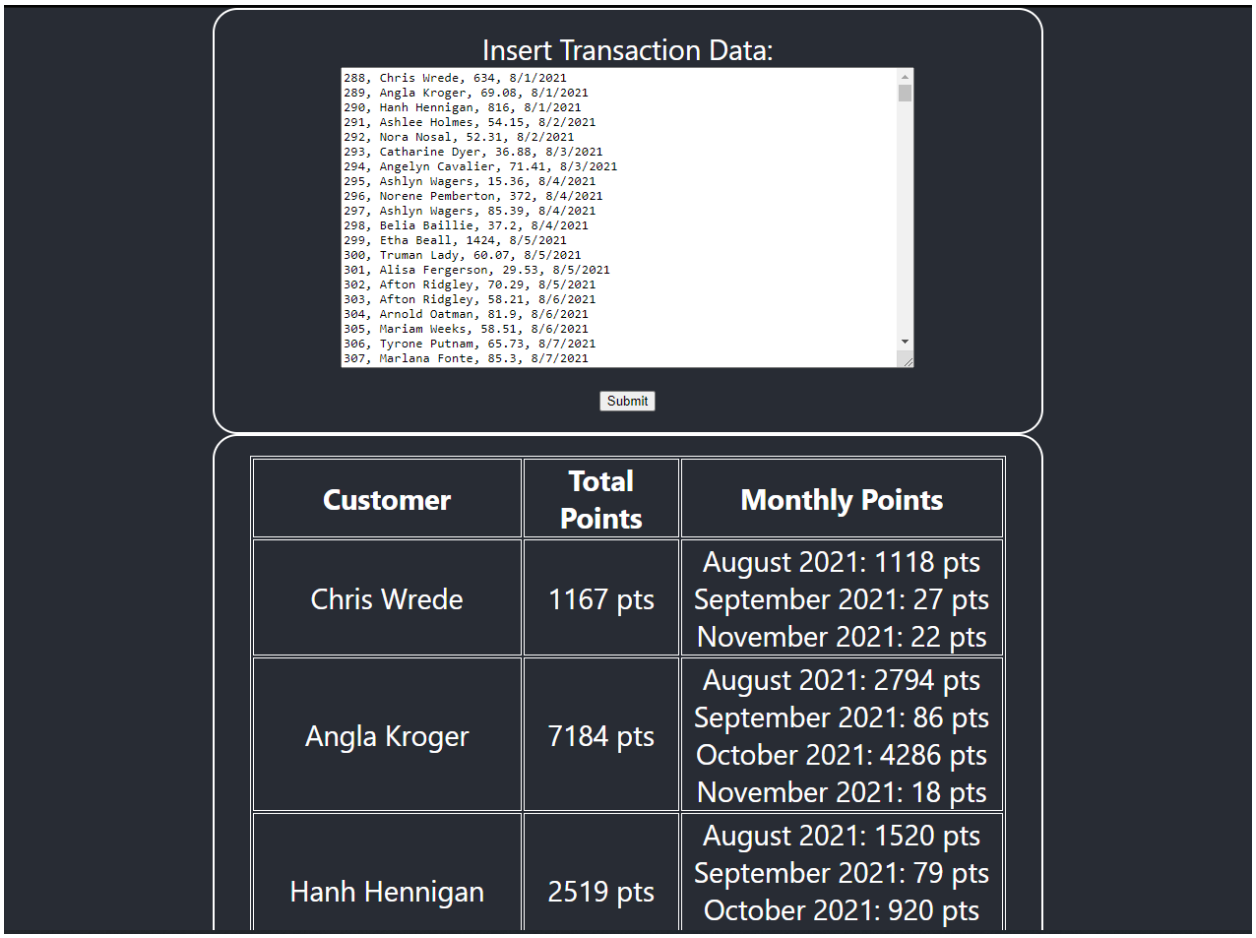
You may find the app hosted at https://rewardscalc.netlify.app/

Otherwise, to run the webapp from a developer / source code perspective, first make sure you have Node.js and node package manager(npm) installed.
In your CLI, navigate to the app's directory and run:
npm start
-OR-
npm run start

This will start a local node server and open the app in your web browser.
If it does not open immediately, you can visit 'localhost:3000' in your browser to access it.

OPERATION:

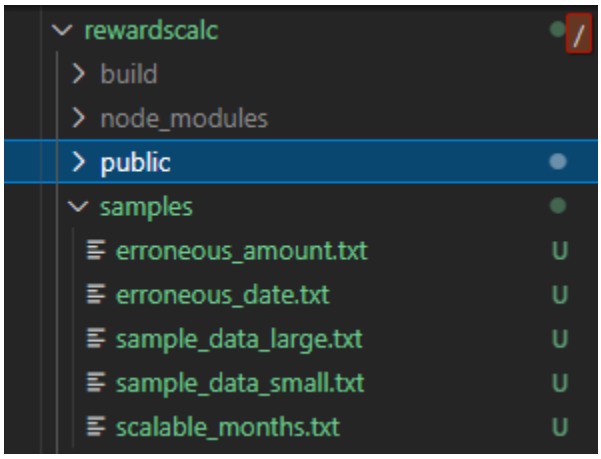
Once you have the application open, you can input transaction data in the format specified inside of the text box (TransactionID, Customer, TransactionAmount, Date)



Then, upon clicking the submit button, the calculated rewards points totals each customer has earned over the given transaction data will be listed out below the input area, according to the formula:

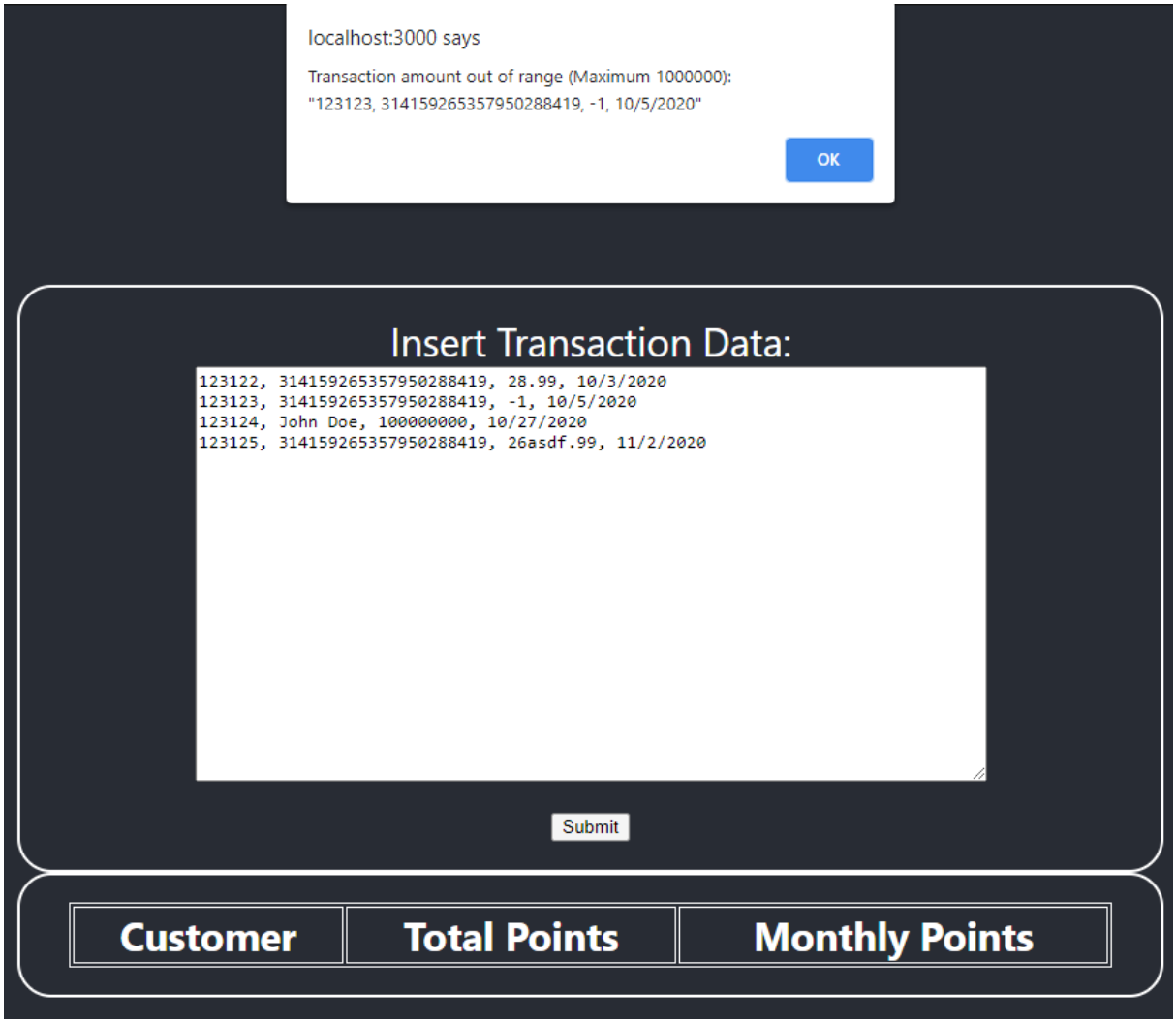
2 points for every dollar spent over $100 in each transaction, plus 1 point for every dollar spent over $50 in each transaction

SAMPLE DATA:



Some sample data is provided in the /samples directory, which may be pasted directly into the app's text box:

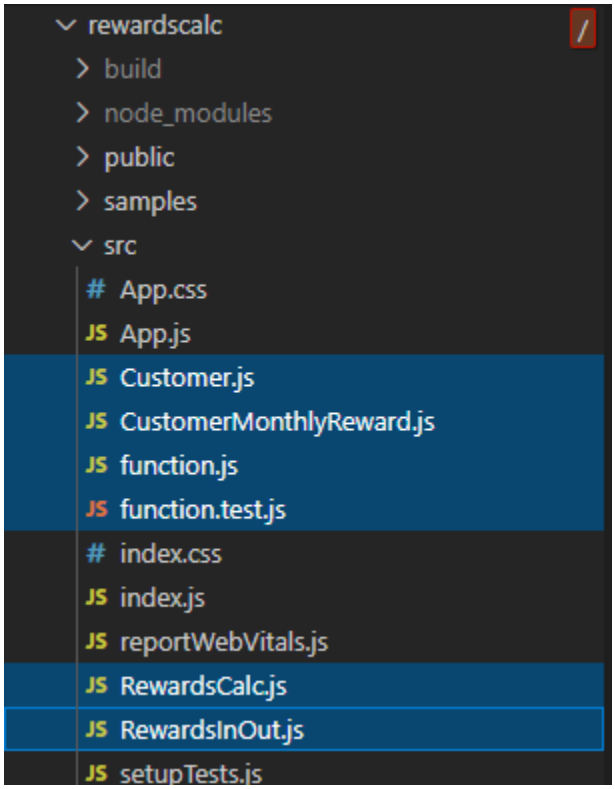
-sample_data_small.txt: A small dataset to quickly test with
-sample_data_large.txt: A larger (500 entries) dataset to better represent more realistic inputs
-**erroneous_amount.txt**: A collection of entries which contain mistakes in the amount value that the web app will alert the user for.
-erroneous_date.txt: A collection of entries which contain mistakes in the date value that the web app will alert the user for.
-scalable_months.txt: A set containing a few entries that show that a customer may have many months of reward point values displayed.



Example of an alert.

SOURCE FILES:

The main javascript source code files of interest are located within the /src folder:



-RewardsInOut.js, RewardsCalc.js, Customer.js, and CustomerMonthlyReward.js as a hierarchy of React components
-function.js: Contains most of the methods doing the heavy lifting for calculation.

Unit tests included in "function.test.js" may be accessed by running the test script:
npm test
-OR-
npm run test