Install/Configuration

Due to how our code is structured it may be very difficult for you to create your own instance of our website so just go directly to our site: http://cs160bankingapp.herokuapp.com/

Required programs/dependencies: React.JS, Node.JS, PostgreSQL, GitHub, and Heroku.

1. First take the front-end code and backend code and upload them to SEPARATE GitHub repositories.

   For example:

   Our front end is at https://github.com/BobbyAtwal/Banking-Application-Front-End

   Our back end is at https://github.com/Bobbyatwal/Banking-Application-Back-End

2. Next go to Heroku, create two Heroku apps, and ensure the same naming convention as your front-end and back-end GitHub repositories.
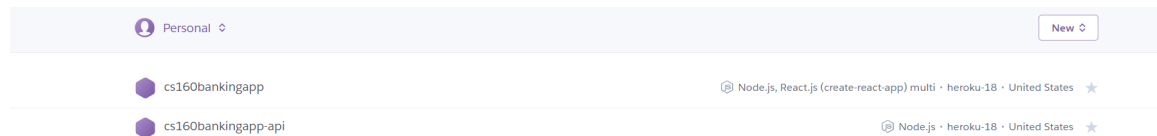
3. There is an option on Heroku after going into your app's dashboard to connect a GitHub repository. Connect each Heroku App to their respective Github repositories.
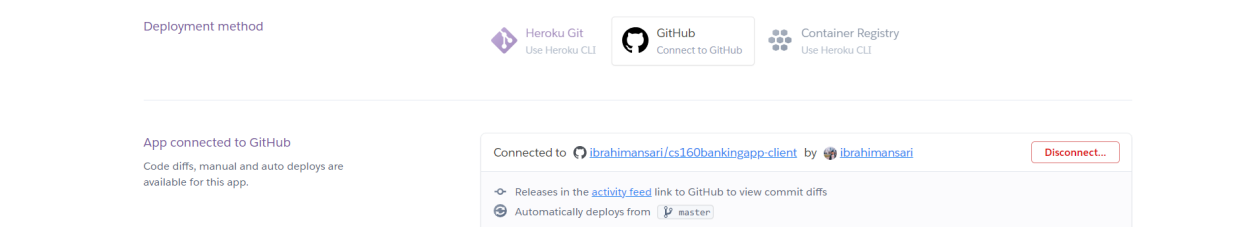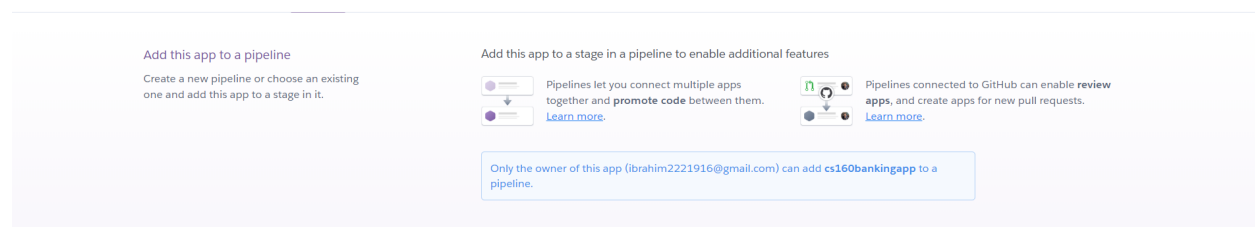
The back-end website is a blank page that serves to manage data between the front-end website and backend. However, this means for every backend call we make on the front end code, you must replace the url in our call with your backend url.

```javascript
const response = await fetch('https://cs160bankingapp-api.herokuapp.com/api/validateUser', {
method: 'POST',
mode: "cors",
headers: {'Content-type': 'application/json',},
body: JSON.stringify({ email: this.state.email.toLowerCase(), password : this.state.password }),
});

const body = await response.json();
```

For example, the above code will be replaced by http:://yourHerokuUrl/api/validateUser

Remember this URL change will be for EVERY SINGLE CALL AND INSTANCE that MUST BE REPLACED BY YOUR URL.

To see the database our backend interfaces with, download PostgreSQL and enter the login information below found in our Backend code.

```javascript
let connectionString = {          //connect to db
    host: 'ec2-54-221-243-211.compute-1.amazonaws.com',
    port: 5432,
    user: 'xmfxzigqqctouo',
    password: 'c32fb92ec8652dd3837ed8423fa1eef3938b939ddb06235b19150f883871a087',
        database: 'dbds5lgqf1gspn',
        ssl:true
}
```

To have your own copy of our database data, first create your own database then use PostgreSQL's copy command to copy our database to the one you just created. Replace the credentials in our backend code with your newly created and copied database's credentials.

Every time you make changes to your code and push to GitHub, Heroku should automatically deploy your GitHub code for you if there are no syntax errors in your code.
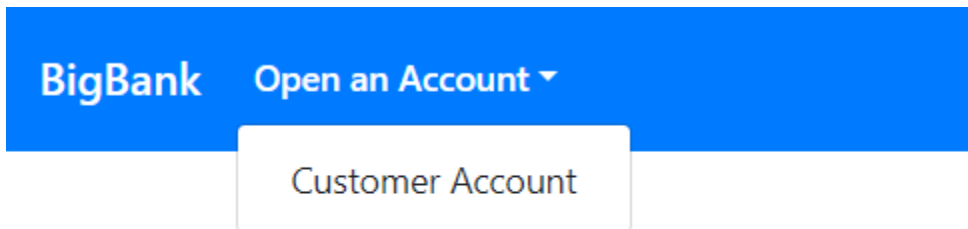
Starting as a user

1. Getting Started: Go to http://cs160bankingapp.herokuapp.com/

and you will be met with this Front Page:

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2. To open an account, click the dropdown 'Open an Account' at the top left and select customer account:

3. Sign up for your account:
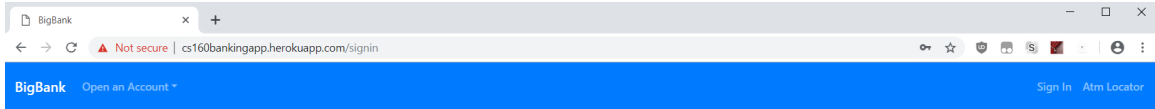
BigBank Customer

Email

testing

First Name

Enter First Name

Last Name

Enter Last Name

Password

••••

Confirm Password

Confirm Password

Address

Enter address

Zipcode

Enter zipcode

Create Account

----

4. Once you're done click 'Create Account' and you will be redirected to the Sign In page. Enter your account credentials here and click Sign in to continue:

5. After that you will redirected to the main customer dashboard:
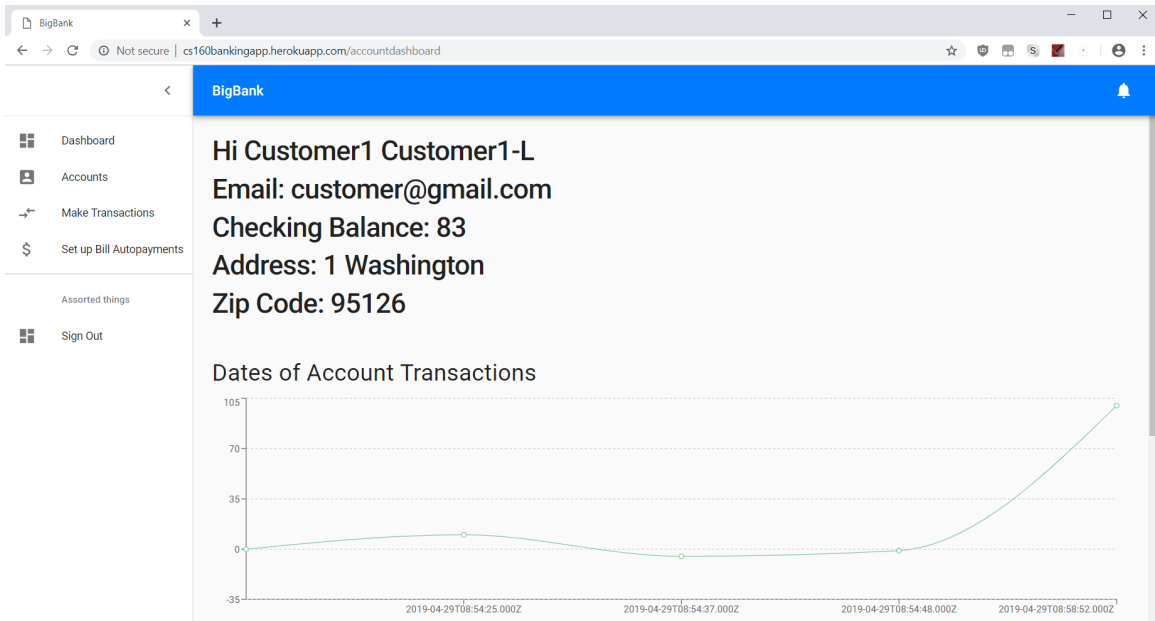
The main dashboard view shows your account information and if you scroll down you will see a graph and Table of transactions:
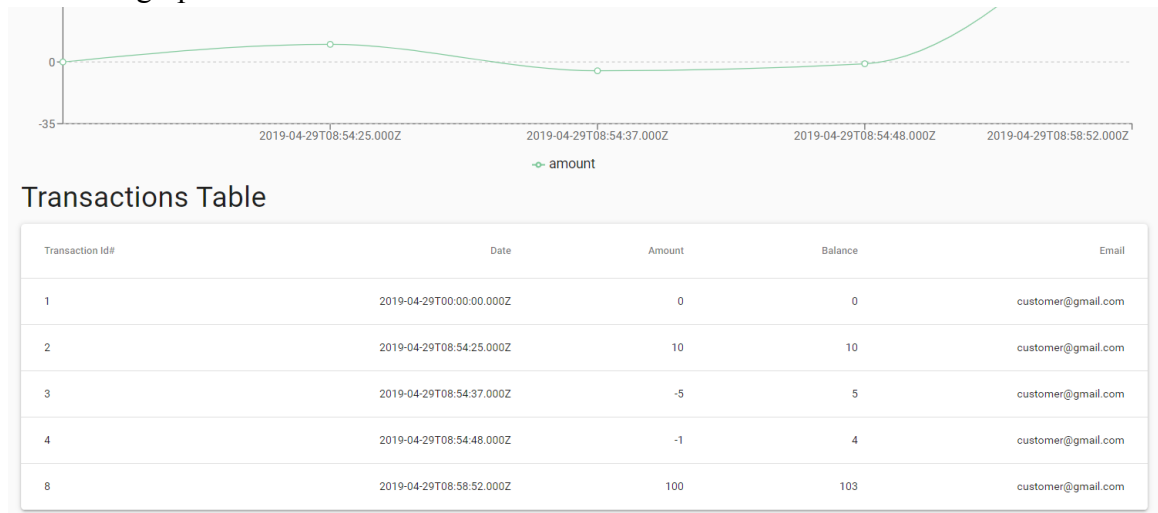
(As a new user you will see an empty graph and tables.)

6. Click on 'Accounts' in the dashboard menu to take you to the accounts menu:
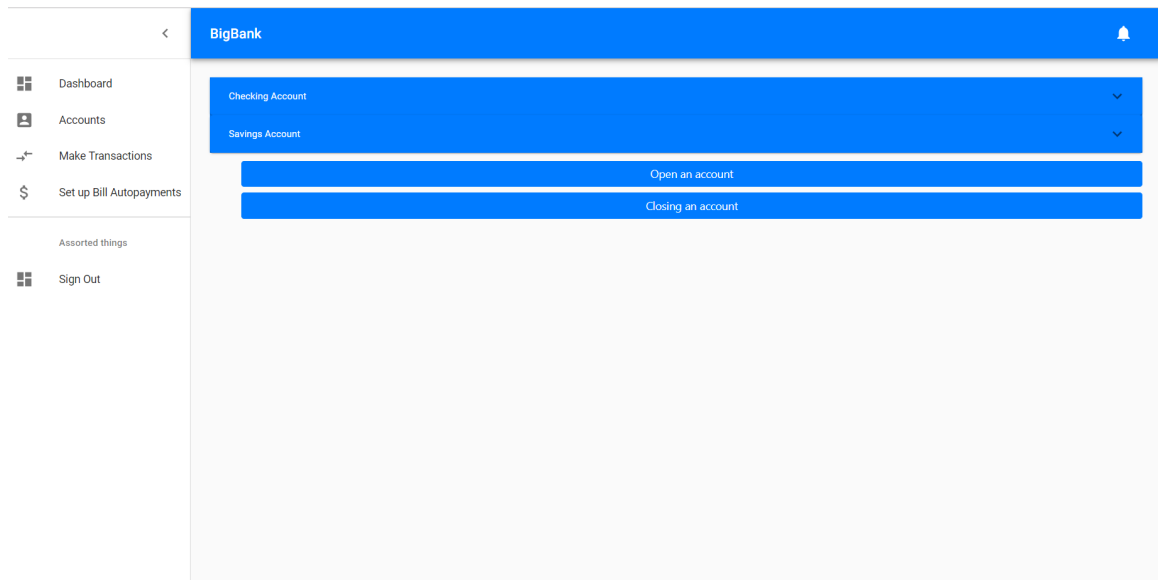
You should see something similar to the above picture most likely missing a checking and savings account.

7. Click on 'Open an account' and select 'Checking Account' in the dropdown to create a basic account:
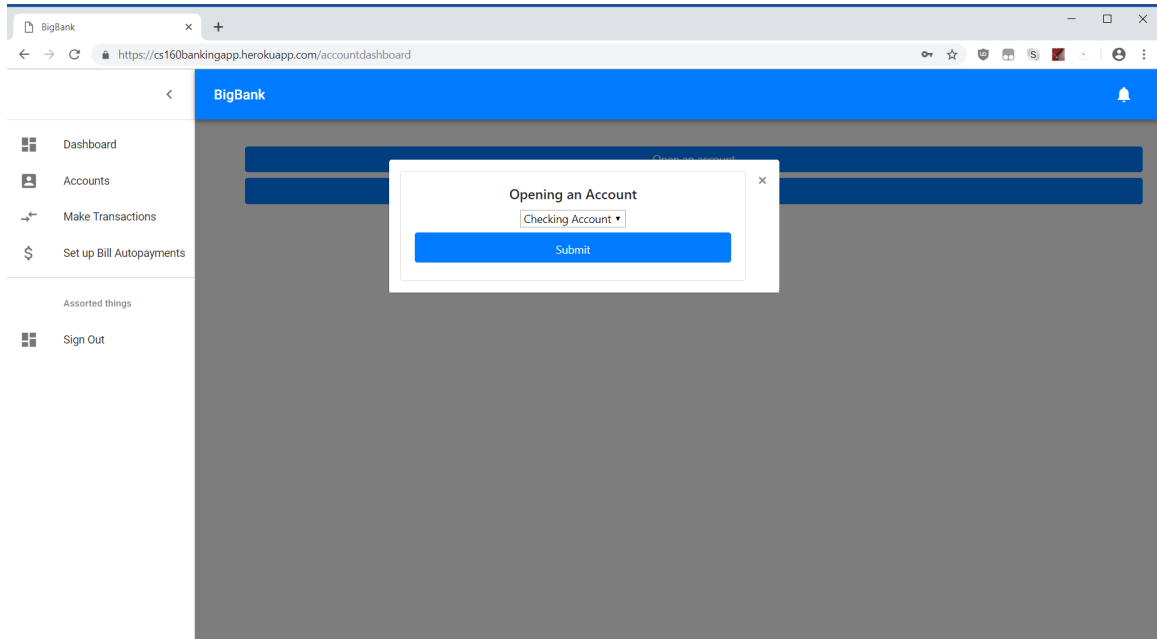
8. Click on 'Submit' and you'll it will take you back to the accounts menu.

   Normally in real life this process would need to be verified by the bank and take 3-5 business but for us click refresh on your browser and voila you have your checking account instantly.
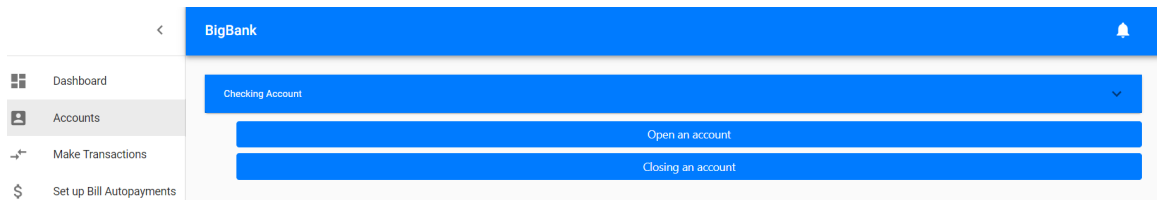
9. Next click on "Make Transactions" to take you to the Transactions Display:
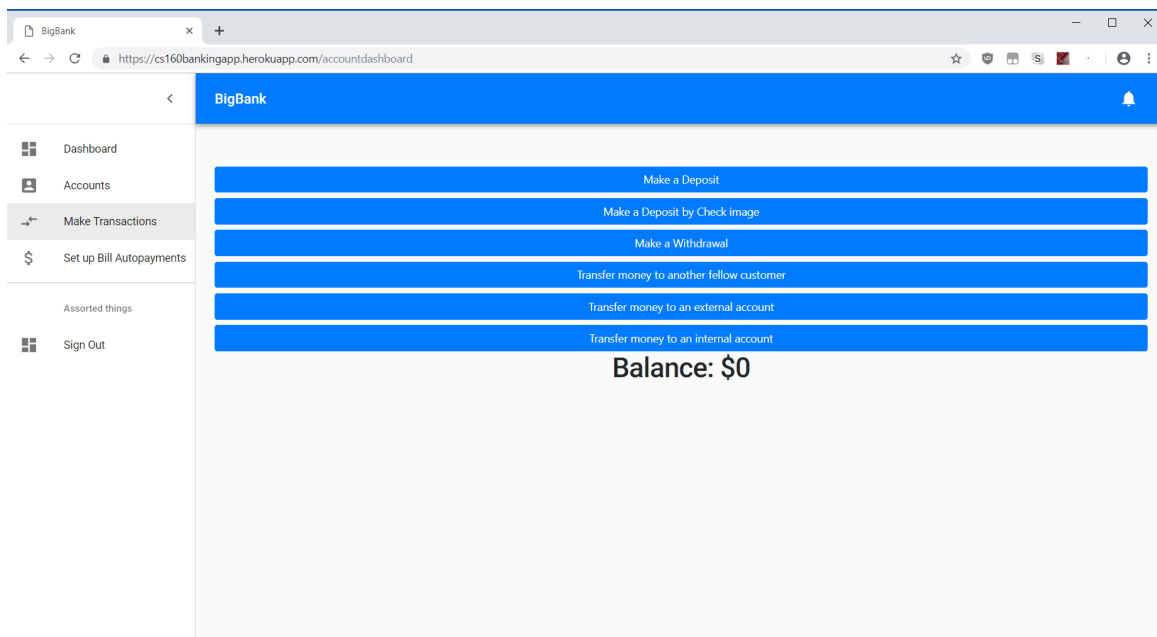
BigBank runs on imaginary money so you can deposit and withdraw as much money as you want with no hidden fees!

10. Click on make a deposit then enter whatever imaginary amount you want to deposit. Then click submit:
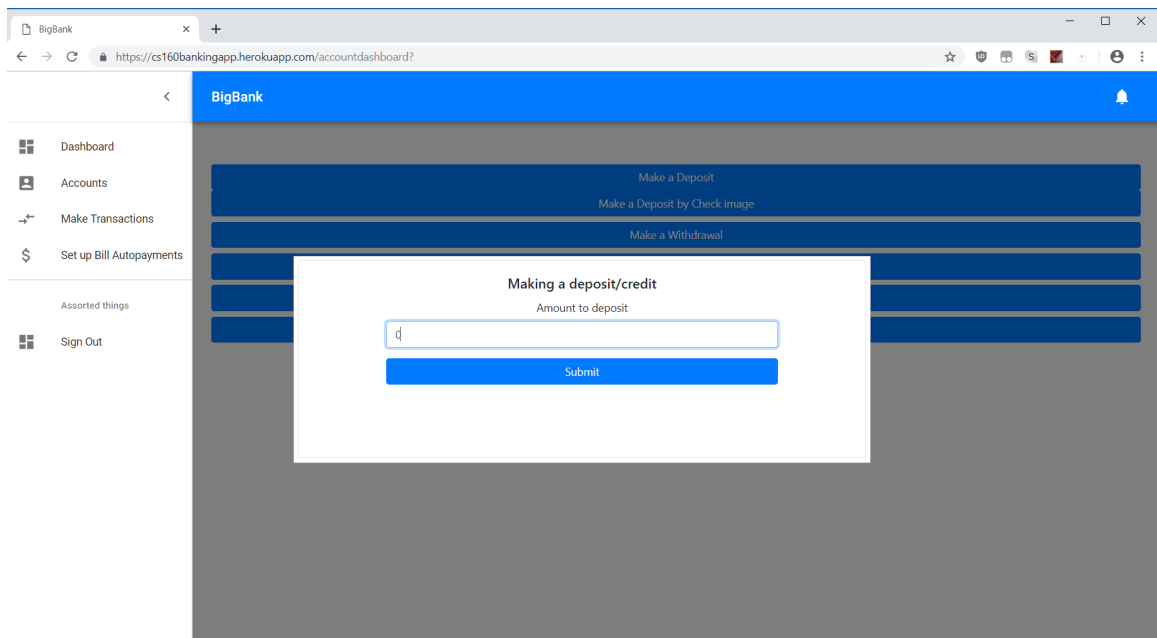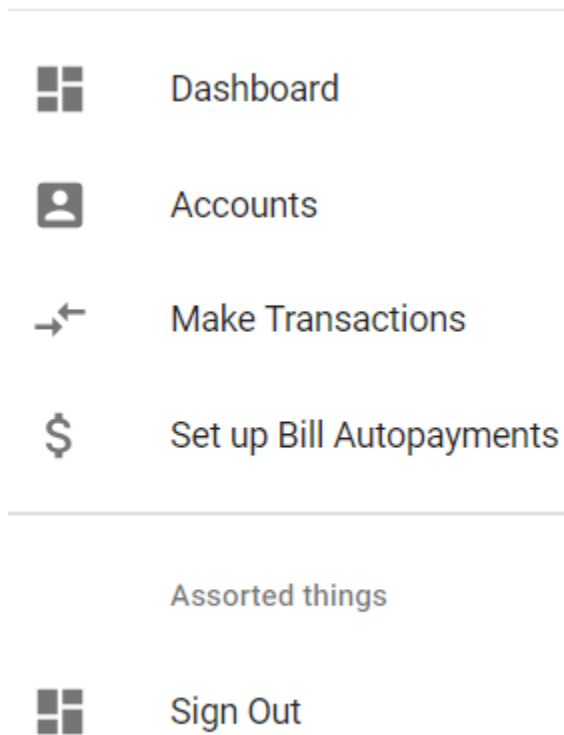
If your transaction is successful, this message will pop up. Just press the "Click to continue" button below to continue:
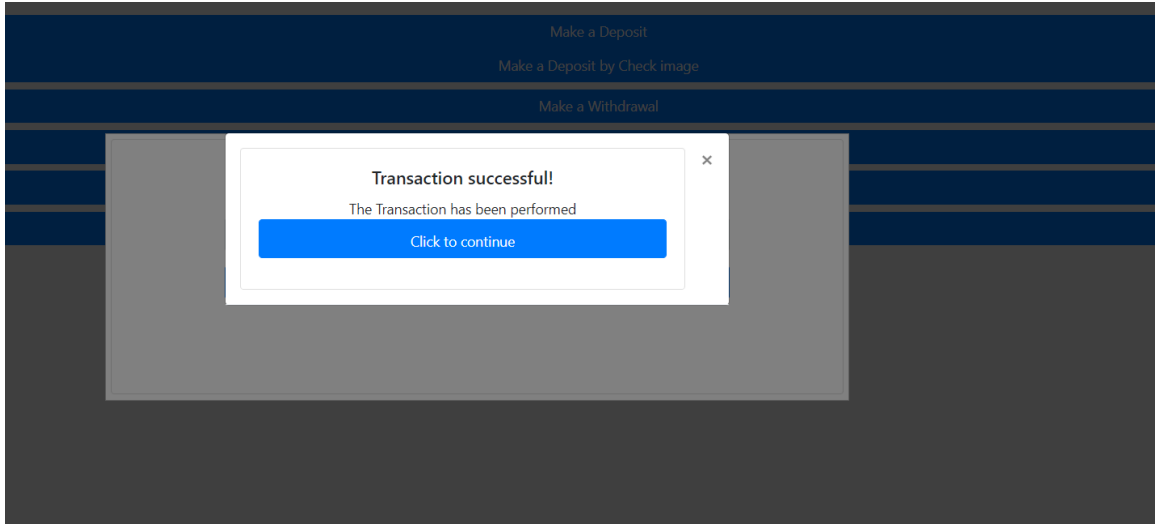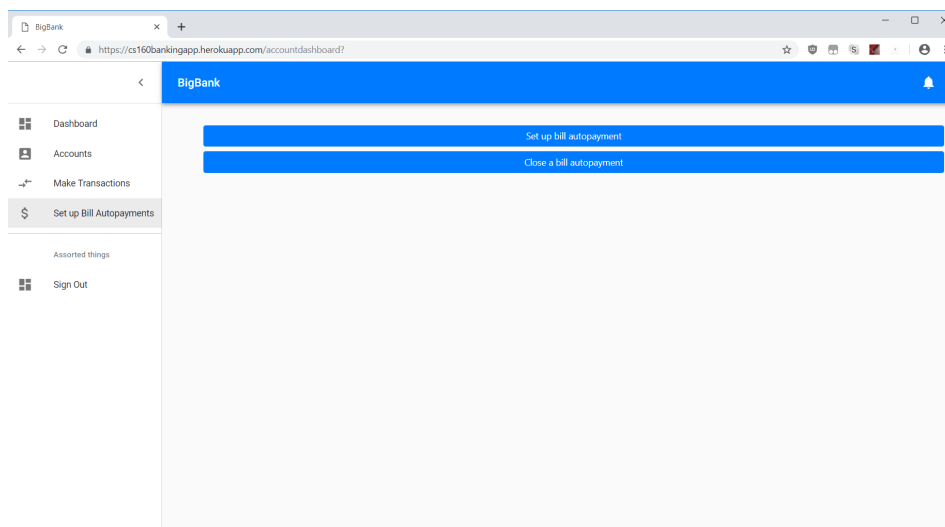

11. You should see that your balance has been updated with whatever amount you input below:
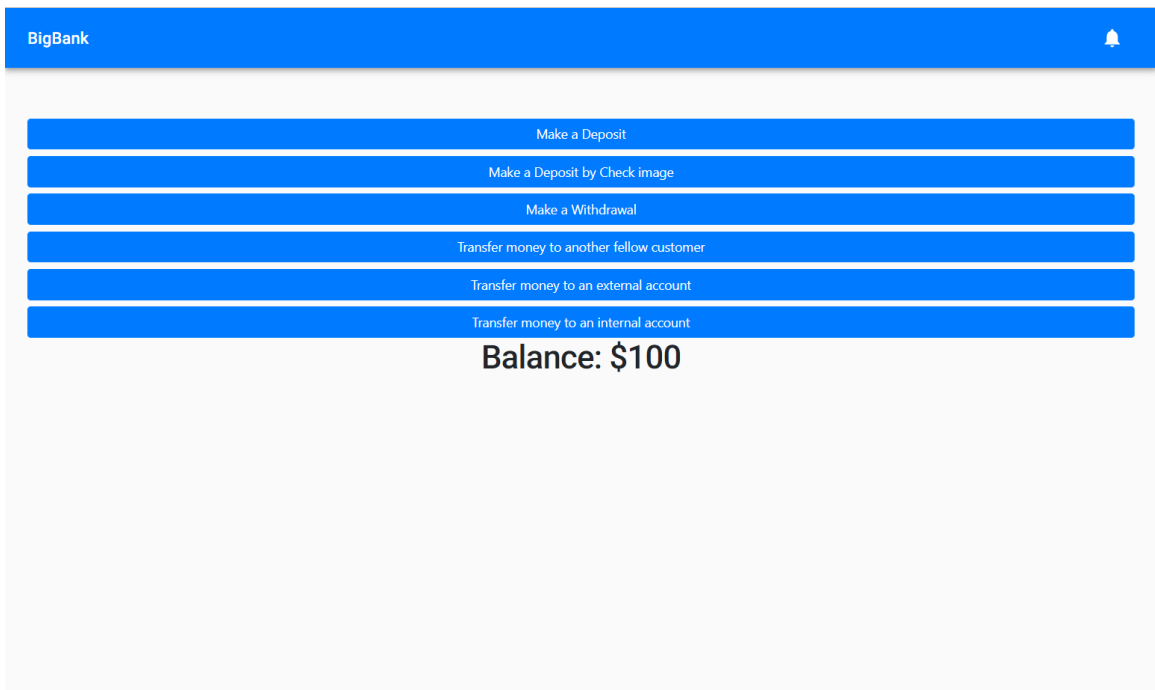
12. If you want to perform other transactions, click on one of the other buttons or continue by clicking on 'Set up Bill Autopayments' on the dashboard:
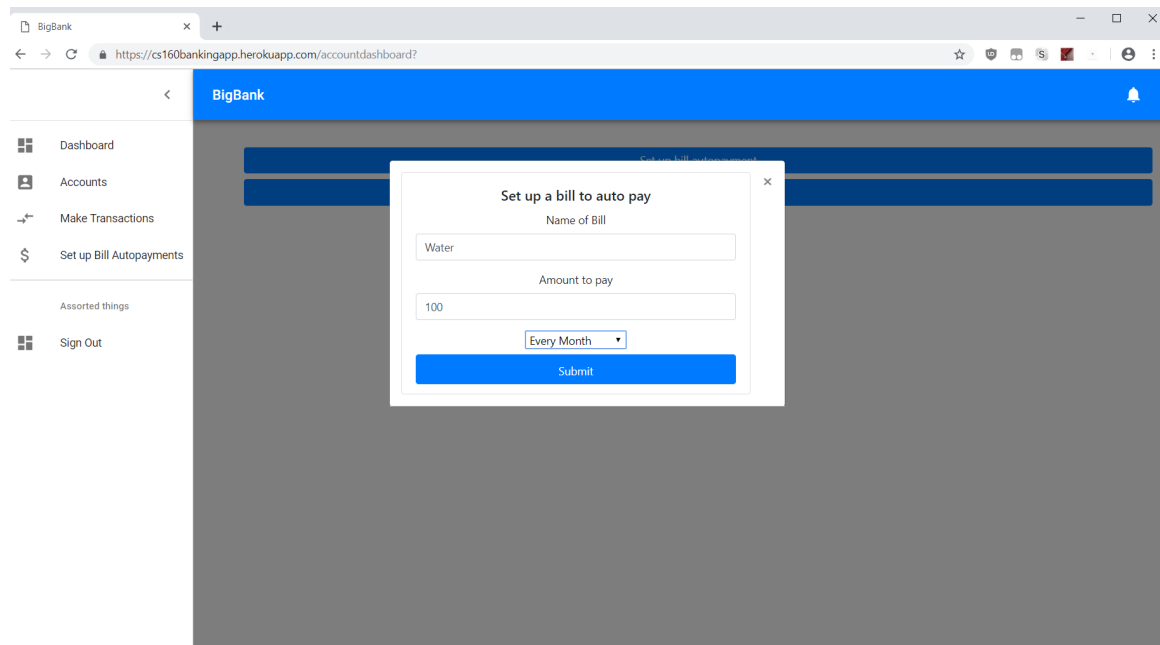

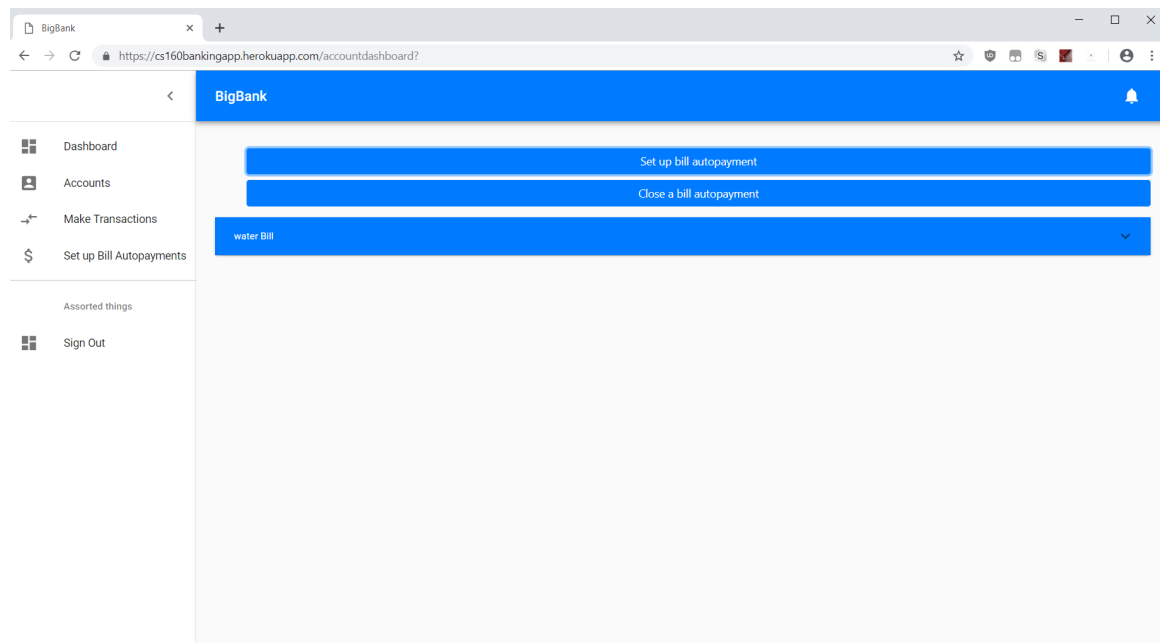13. When you click on 'Setup Bill Autopayments' you will be created by the view as seen below:

You can setup bills to that will automatically paid with funds from your account.

14. Click the 'Set up Autopayment' button and enter in the information of the bill you would like to pay:

15. Click submit and you should see your new auto payment bill pop up:

16. BigBank offers others features not mentioned in this guide. If you want to go back and explore them feel free. Otherwise click sign out on the navbar and go back to the front page.

17. On the front page and on the navbar at the top, you'll see something called ATM Locator. Click on it:

18. We are partnered with Chase Bank and their ATM's are compatible with our system(not really). Enter an address and a Google Maps customized search will show all Chase banks and ATMs nearby your specified location:
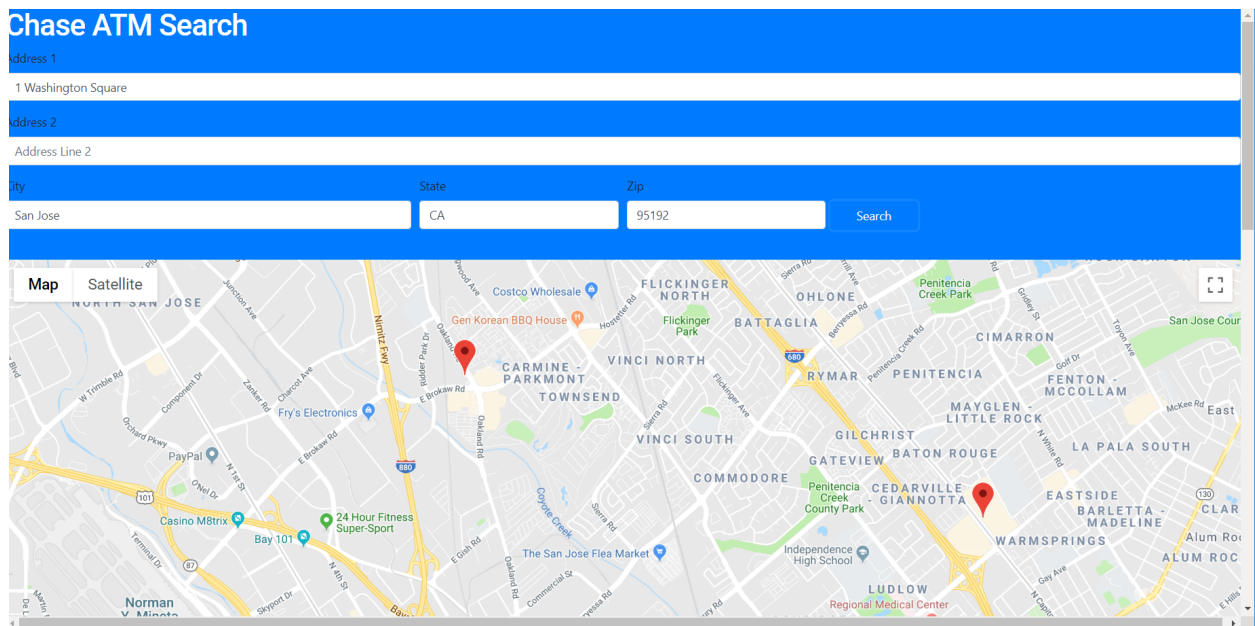
To go back to the website simply click the back button on your browser.

19. For the Managers components, click Sign In on the navbar on the front page.

Email: bank@gmail.com password: pass to be taken to the Manager Dashboard.

20. Here you can see a list of all users, their accounts, and a list of all transactions performed by every user. Clicking on the buttons sorts accounts and transactions in descending order depending on the attribute. If you click on generate reports, our pop up allows you to enter the name of a user and isolate information relevant to that user.

21. Here you can see the generated report.

Report of User named Customer1

Customer1 Accounts

first_name	last_name	Email	Account #	Status	Balance	Type	Zip Code
Customer1	Customer1-L	100016	customer@gmail.com	Open	21	savings	95126
Customer1	Customer1-L	500015	customer@gmail.com	Open	83	checking	95126

Customer1 Transactions

transaction_id	email	date_stamp	amount	balance	first_name	last_name
1	customer@gmail.com	2019-04-29T00:00:00.000Z	0	0	Customer1	Customer1-L
2	customer@gmail.com	2019-04-29T08:54:25.000Z	10	10	Customer1	Customer1-L
3	customer@gmail.com	2019-04-29T08:54:37.000Z	-5	5	Customer1	Customer1-L
4	customer@gmail.com	2019-04-29T08:54:48.000Z	-1	4	Customer1	Customer1-L
8	customer@gmail.com	2019-04-29T08:58:52.000Z	100	103	Customer1	Customer1-L

Return to Dashboard

Feel free to explore and report any bugs that we did not find! Thank you and happy banking!