Cloud Computing SOFE4630U

Assignment 2 – Amazon Web Sevices

"Budgtr"

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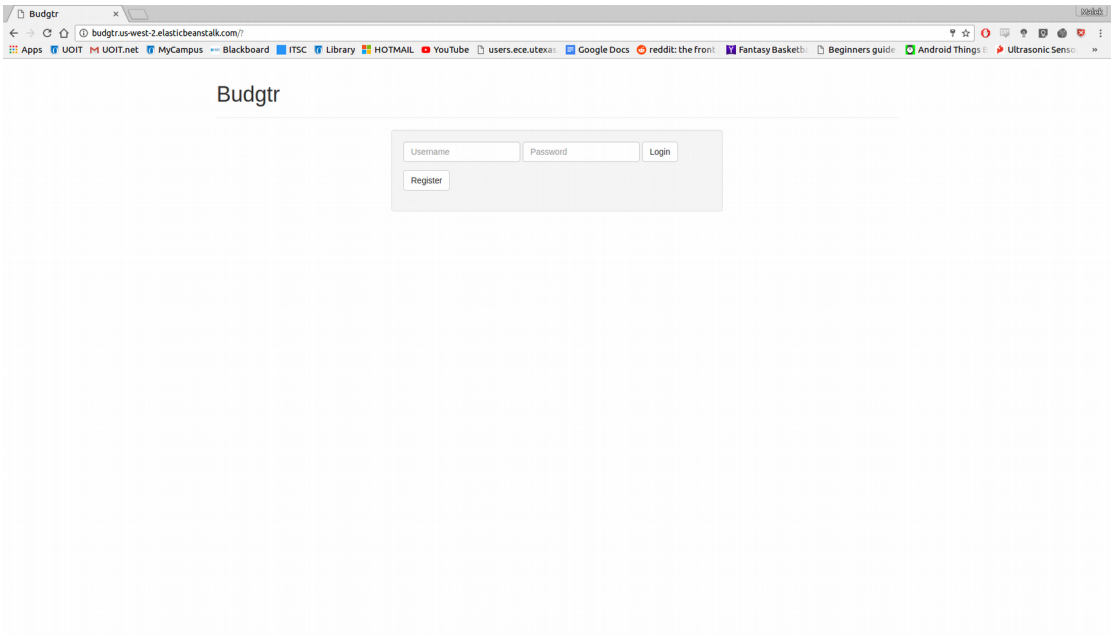
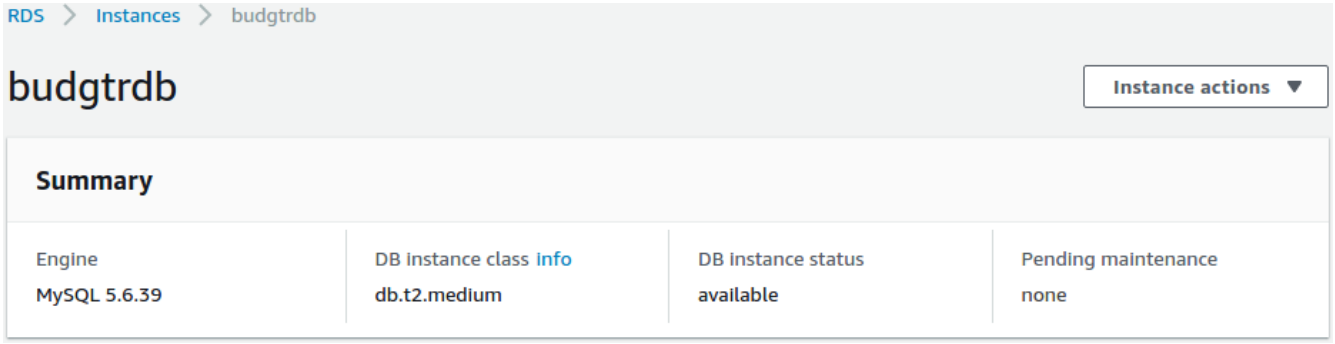
App Details

For the second assignment of the course, I made an application which keeps tracks of users daily monetary transactions, in order to maintain a budget and keep track of their spending. Users can add new transactions based on three details: transaction total, transaction date and transaction location. The app has a very simple user interface, making it very intuitive for the user to use.The app was implemented using HTML, CSS, Bootstrap and jQuery for the UI elements, Node.js and Socket.IO for the backend server and MySQL for the database storing the user data.

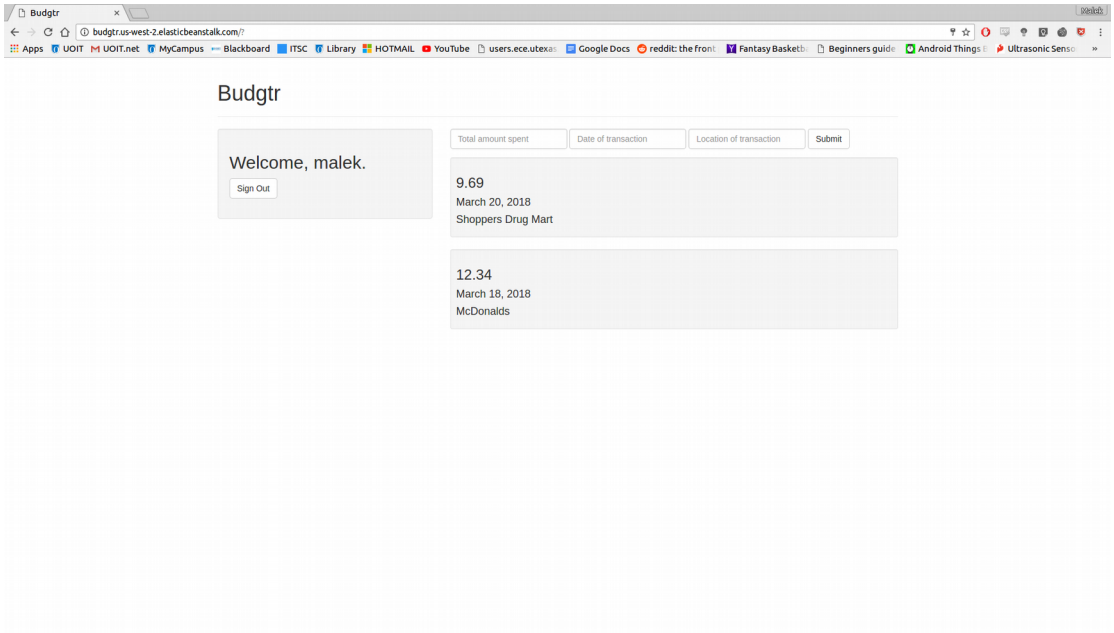


Picture 1: Budgtr Homepage

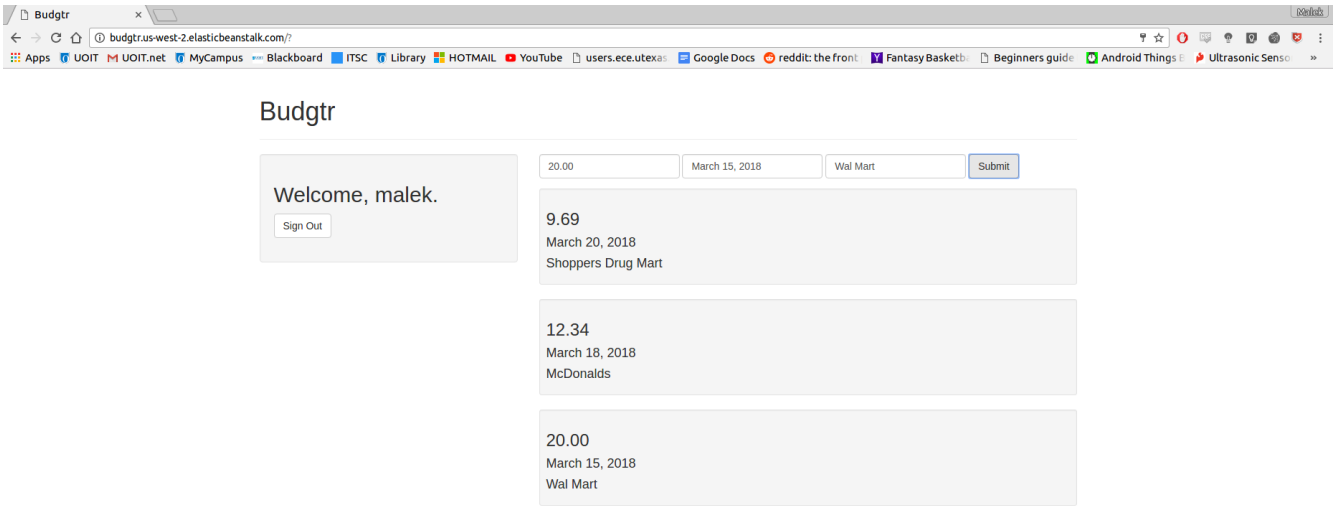


Picture 2: AWS Relational Database Service

For my application, I utilized AWS's ElasticBeanstalk to deploy my web-app on the Node.js platform and AWS's Relational Database Service to power my MySQL database.

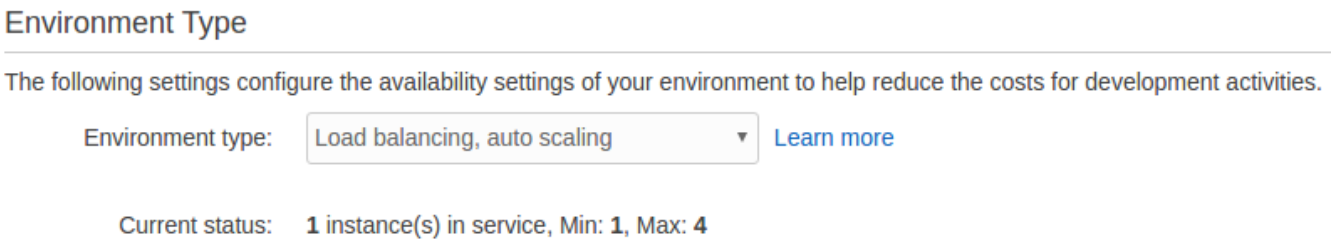


Picture 3: Budgtr User Dashboard



Picture 4: Adding New Transactions

The dashboard is updated in real-time, and new transactions are inserted into the database for future reference.



Picture 5: Elastic Beanstalk Autoscale

Elastic Beanstalk allow users to utilize their auto scaling and load balancing services. Users can set when they want AWS to scale-up or down their application based on specidifc parameters, such as instances or other parameters such as time. As we can see in the picture above, there is currently 1 instance running. If there were 3 more instances, then new instances would be launced to handle the traffic.