Sumit Kumar

CMPSC 341

Project Phase 2: Implementation

**Reflection:**

To deploy my web application, the directory should have flask environment installed in it for the application to run successfully. Other than that, I have no idea how to run the project without the flask virtual environment unless you have flask installed in your PC.

So, once the environment is setup our project is ready to go. Just to run it get to the directory in which the project folder is installed and either CMD or Window PowerShell.

Once inside the directory, write the following command on CMD or Window PowerShell to run the program:

Python app.py

**app.py** is my main file which need to run every time we want to test our web application.

The main Python files inside webpages folder are:

**\_\_init\_\_.py** – This file creates the flask app and the generic file extending to almost every file in the project. We create the database and our tables in this file.

**auth.py** – This file has all the views related to authentication. So, the main views are login, logout and sign up. This file also manages login session and all necessary part of login and logout of the customer and manager.

**home.py** – This file has all other views related to the project and almost all the views are extended from the home view as for very view the top part remains the same which is Home and Logout for all the users in our database.

**table.py** – This table deals with creation of all the tables in our database. This file describes the schema of various tables ranging from what columns and what constraints they have ranging from Primary key to foreign key.

The templates folder has all the HTML files required for our project and they all are being called in their respective views.

So, the project run in flask virtual environment. So, all you need is one programming language editor for me I personally used Sublime to code and then used Windows PowerShell to run my project. Then, I just ran the localhost:5000 on my Google Chrome browser. So, basically, I will recommend using Chrome or Firefox to run the project for web application part of the project.

Once, you run app.py and run localhost:5000 on a browser. It will take you to the Home window where it will ask you to login or signup. So, if you have an account, you can login and if you do not you can create one.

Once logged in, you can access all the functionalities implemented in the project such as Buy/Rent books, rate other users, search books, comments on books. Also, if you are a manager then you get to use the extended functionalities as well such adding books, making someone manager, update the books database, update, and check the stock table.

The comment functionality and best buyer are not working in my project. So, if you click on those buttons, it will simply take you to the home page which will be the page where you see all the functionalities if logged in.

Also, I used a lot predefined template from various online sources. I also used some code snippets from online sources. Some of the sources I used to configure error and look for templates are:

Kten, Ktenkten 33533 gold badges1010 silver badges2424 bronze badges, Renato ByrroRenato Byrro 2, & Stamaimerstamaimer 5. (1966, January 01). Python flask redirect to another page. Retrieved May 01, 2021, from <https://stackoverflow.com/questions/43678790/python-flask-redirect-to-another-page>

Welcome to flask¶. (n.d.). Retrieved May 01, 2021, from <https://flask.palletsprojects.com/en/1.1.x/>

Mark Otto, J. (n.d.). Forms. Retrieved May 01, 2021, from <https://getbootstrap.com/docs/4.0/components/forms/>