Deliverable 3 – Project Phase 1 Report

FuelXpress

Team: Hackelite

Team Members:

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1) Requirements

Title: **Authentication**

Signup page:

- For User identification and enrolment to the website, on Signup page we capture details such as Username, Email address and password. Each of the section has some eligibility criteria mentioned (For e.g. Username can be no longer than 150 characters and can contain number, letters and set of special characters).

- If any of the details mentioned by user doesn't match, he/she will be notified the corrections to enable user experience.

Login Page:

- Users can securely log in by providing their registered email address and confidential password.

- Successful authentication requires that the provided login credentials, consisting of the email and password, are both valid and already registered in the server's database.

- This dual requirement ensures that only authorized users with valid accounts can gain access to the system, enhancing security and protecting user data.

Title: **Admin Dashboard**

- Within the admin interface, the "Monitoring Orders" feature empowers administrators with the ability to comprehensively analyse, manage, and track orders.

- This functionality includes the option to categorize orders based on various criteria, such as location, dates, and order status, providing administrators with a structured and efficient approach to order oversight.

- In addition, the admin holds the authority to confer access levels to another users. This act bestows upon the designated user an identical level of permissions and administrative privileges as the original admin.
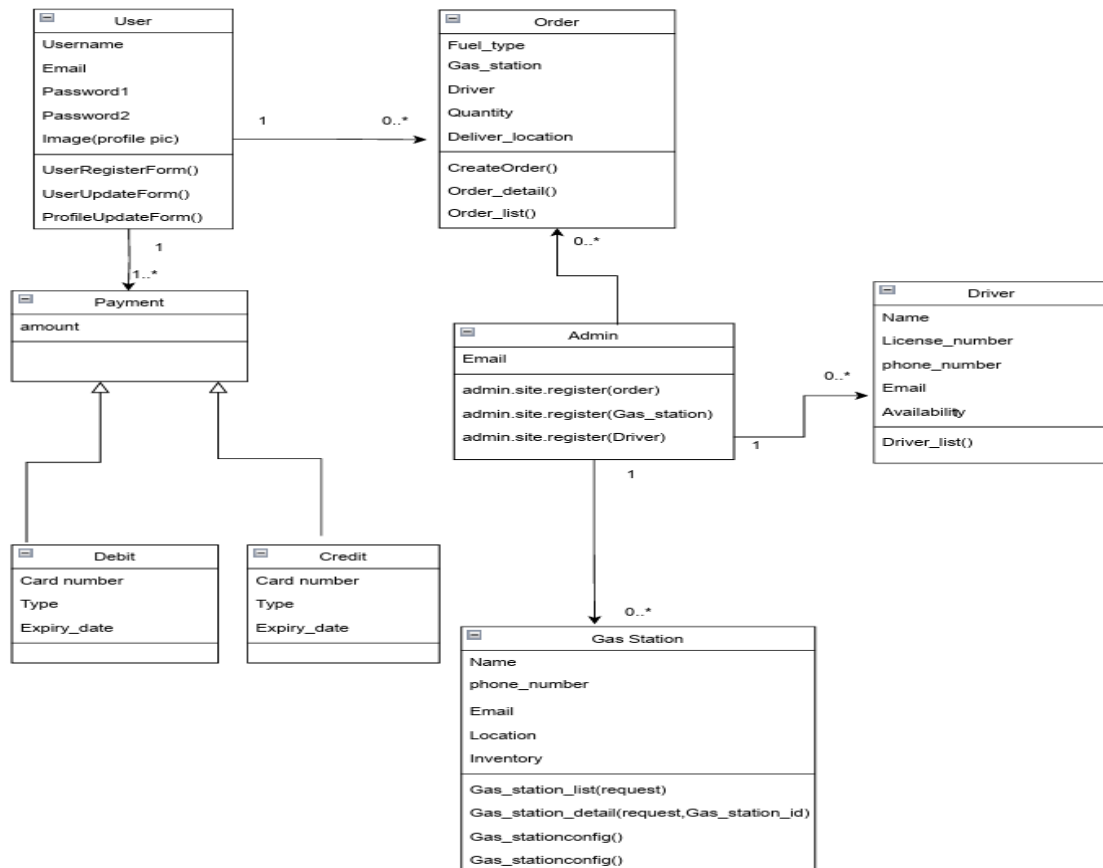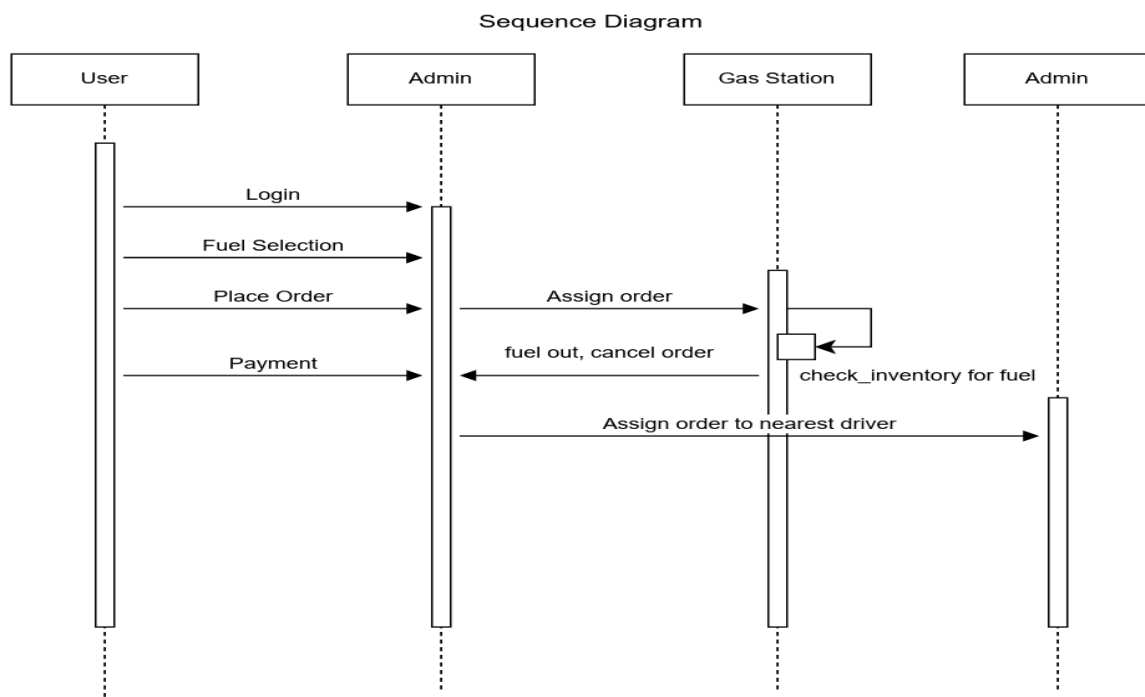
2) UML Diagrams:

a)UseCase Diagram
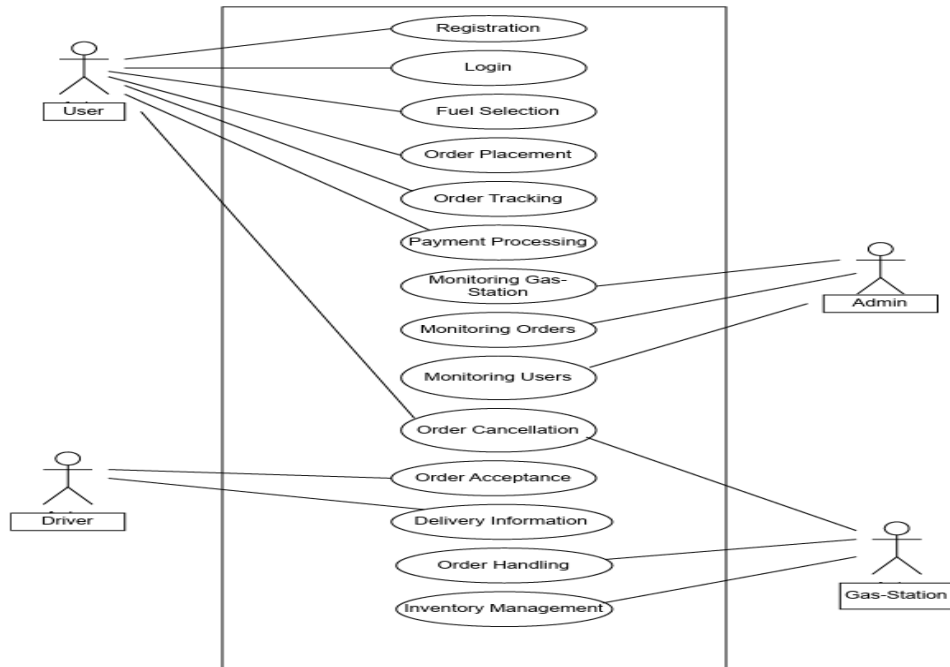
b)UseCase Diagram (Error Case)
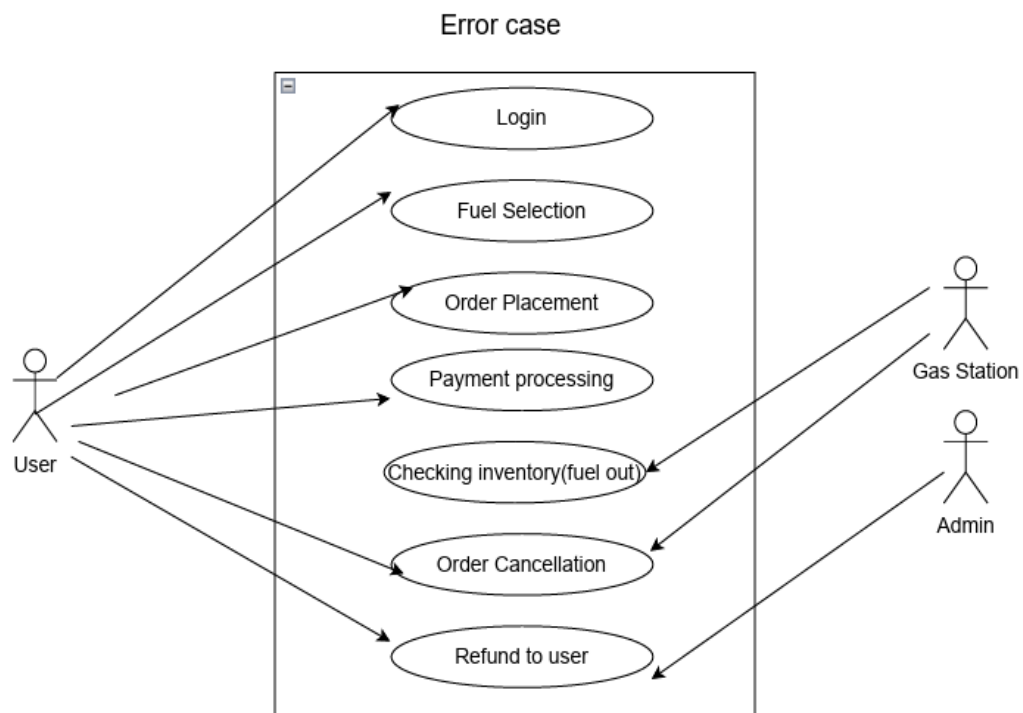
c)Class Diagram

d)Sequence Diagram

3)Test Cases:

Test Case ID	Test Module Name	Test Scenario	Test Steps	Expected Results	Actual Result
TC001	SignUp	Verify SignUp page with Valid User Signup details	a. Open the application. b. Navigate to the signup page. c. Enter a unique Username, Email, password and confirm password. d. Click the "Sign Up" button.	a. The system accepts the username, email and password. b. The application opens successfully. c. Login page is displayed with this message (Your account has been created! You are now able to log in).	The test case passes if all steps are successful, and the user is redirected to the Login page.
TC002	SignUp	Verify SignUp page with Invalid Email Format	a. Open the application. b. Navigate to the signup page. c. Enter an invalid email (e.g., abc@gmail/abc.com) d. Click the "Sign Up" button.	a. The application doesn't opens successfully. b. The system rejects the invalid email address with an error message (enter a valid email address (e.g:abc@gmail.com)). c. User remains in same page	If the message is displayed by the system that Email address is not valid then this testcase is successful.
TC003	SignUp	Verify SignUp page with Password Mismatch	a. Open the application. b. Navigate to the signup page. c. Enter a password that does not match the entered password. e. Click the "Sign Up" button.	a. The application doesn't opens successfully. b. The system detects a mismatch between the password and password confirmation (the two password fields doesn't match) c. User remains in same page	If the message is displayed by the system that the password is not matching, then this testcase is successful.
TC004	Signup	Verify Signup page with Week password	a. Open the application. b. Navigate to the signup page. c. Enter a week password (less than 8 characters, only numeric, similar to personal name i.e:abcde/12345 etc.) d. Click the "Sign Up" button.	a. The application doesn't opens successfully. b. The system detects a week password with error message (enter strong password) c. User remains in same page.	If the message is displayed by the system that the password is not valid then this testcase is successful.
TC005	Signup	Verify Signup page with Missing required fields.	a. Open the application. b. Navigate to the signup page. c. Submit the form with missing required fields	a. The application doesn't opens successfully. b. The system rejects missing required fields	If the message is displayed by the system that the fields

			(i.e name, email, or password) e. Click the "Sign Up" button.	with error message (Fill out the fields) c. User remains in same page	are missing, then this testcase is successful.
TC006	Login	Verify Login page with valid credentials	a. Open the application. b. Enter a valid username and password. c. Click the "Login" button.	a. The system accepts the valid credentials. b. The application opens successfully. c. The Dashboard page is displayed.	The test case passes if all steps are successful.
TC007	Login	Verify Login page with Invalid Login Credentials (Valid username and incorrect password)	a. Open the application. b. Enter a valid username and an incorrect password. c. Click the "Login" button.	a. The application is unsuccessful. b. The login page remains same with error message (Please enter a correct username and password. Note that both fields may be case-sensitive)	If a message is displayed by the system that user credentials are not valid then the test case is successful.
TC008	Login	Verify Login page with Invalid Login (Non – existent user)	a. Open the application. b. Enter nonexistent username and password. d. Click the "Login" button.	a. The application unsuccessful. b. The login page remains same with error message (Please enter a correct username and password. Note that both fields may be case-sensitive)	If a message is displayed by the system that user credentials are not valid then the test case is successful.
TC09	Admin Dashboard	Verify Admin Dashboard once login is successful	a. Logins to fuel Xpress System b. Navigates to Dashboard	a. The login is successful, and the user is authenticated. b. The dashboard is displayed with the following tabs: i) Fuel Xpress ii) Order List iii) Gas Stations iv) Drivers	All the tabs should be displayed successfully
TC10	Home page	Verify the details on FuelXpress Homepage	User is able to click on FuelXpress URL	a. User is able to view the page with options to Login and Signup b. User should navigate to Login and Signup pages when clicked on Icons	All details should be displayed properly

4)User Manual

The online fuel delivery platform that simplifies the process of ordering and receiving fuel at your location. This user manual will guide you through the steps to get started with Fuel Xpress

Getting Started:

To get started with Fuel Xpress, follow these steps:

User Registration and Authentication

Visit the Fuel Xpress website.

1. Click on the "Sign Up" or "Register" button to create an account.
2. Fill in the required registration details, such as your name, email, and password.
3. Once registered, you can log in using your credentials.

User Dashboard

1. After logging in, you'll be directed to the dashboard.
2. On Dashboard page, User will be able to Create fuel order, View Orders List

Admin Dashboard

1. After logging in with Admin Credentials, you'll be directed to the admin dashboard.
2. On Admin Dashboard, following details are displayed:
   Authentication and Authorization, Drivers, Gas stations, Users - This will be used to assign access level to other users.
   Orders- Admin will be able to monitor orders created for all the users here.

Code Compilation Results:

1.User access Home page of FuelXpress website.
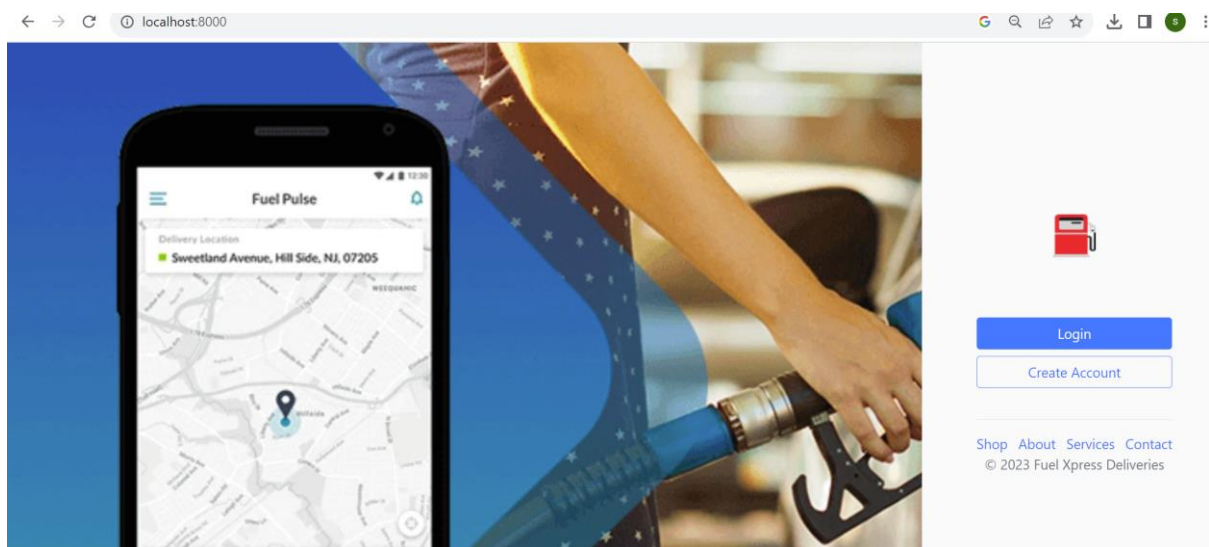
2.User signup form, here each section need to be filled as per the format mentioned, otherwise error message will be displayed.
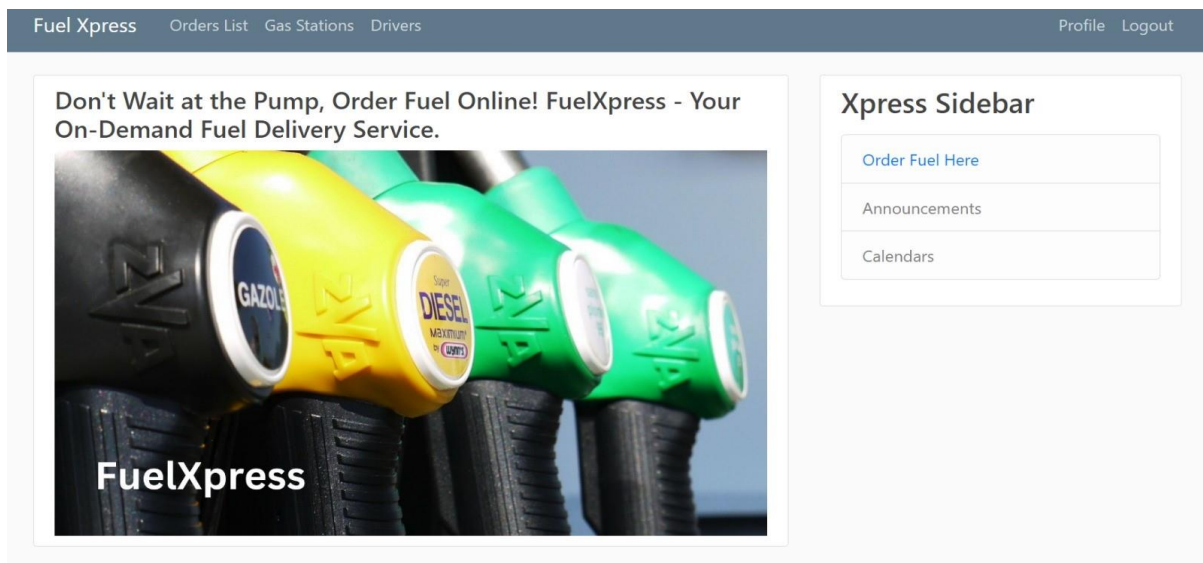

3.User need to login with valid credentials otherwise login fails

3.Once user logs in, the dashboard view will be as follows
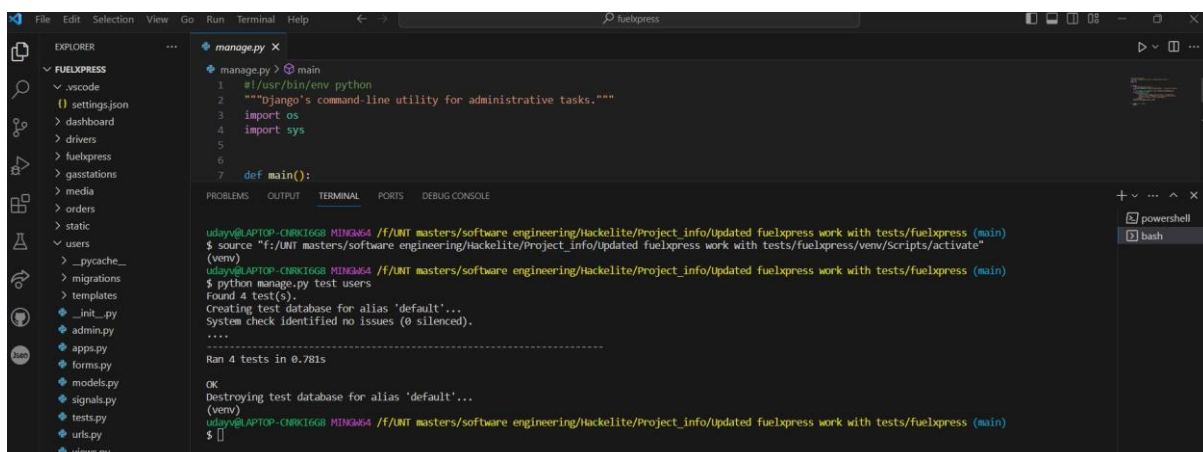

4.If admin logs in, the dashboard view will be as follows
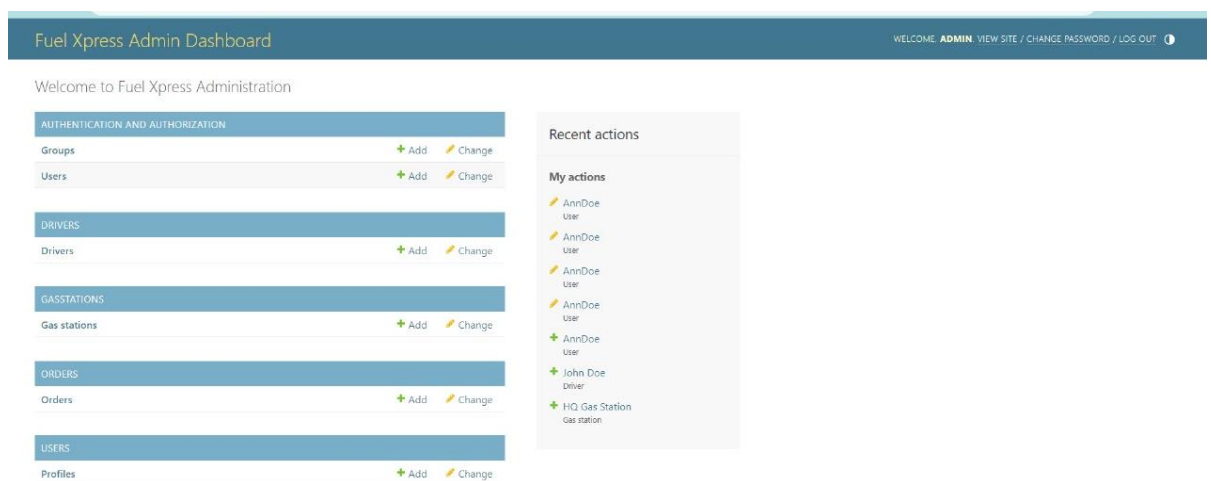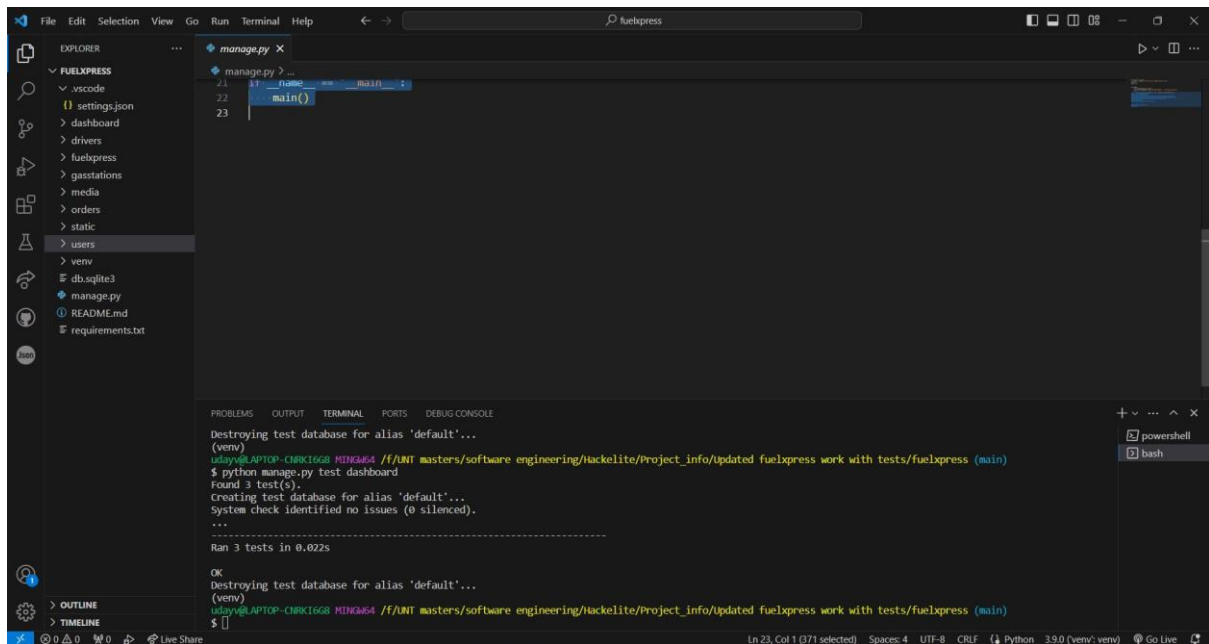

Unit Test Results:

Login and signup

Dashboard

5) Instructions on how to compile/run

Frontend: -

Step1: To begin with, we must download Visual Studio Code, which will serve as the IDE for the frontend repository.

Here we can able to download visual studio code by using this link ,select Windows or Mac based on your system .https://code.visualstudio.com/download.

Step 2:Next we need to install python version above 3.12.0 or above suggested.

 https://www.python.org/downloads/.

Step 3: Install Django Packages inside visual studio code.

Step 4: Go the file menu in Visual Studio and select our folder ,we named our folder name as FuelExpress.

Step 5: Select the new terminal and select GitBash which is located in the powershell below in visual studio code.

Note: If you don't have GitBash use the below link to download.

https://git-scm.com/downloads.

Step 6:

After the installation of gitbash, open gitbash terminal in visual Studio Code to create a virtual environment and installing the packages required.Follow the below bash commands to do so.

```
sahit@NaSahi MINGW64 ~/OneDrive/Desktop/CSCE Software Engineering/Updated fuelxpress work with tests/fuelxpre
ss
$ python -m venv venv

sahit@NaSahi MINGW64 ~/OneDrive/Desktop/CSCE Software Engineering/Updated fuelxpress work with tests/fuelxpre
ss
$ source venv/Scripts/activate
(venv)
sahit@NaSahi MINGW64 ~/OneDrive/Desktop/CSCE Software Engineering/Updated fuelxpress work with tests/fuelxpre
ss
$ pip install -r requirements.txt
```

Step7:

We apply the database migrations now using 'manage.py make migration' and 'manage.py migrations', it installs missing dependencies.

Step8:

To run the development server follow the below command

```
sahit@NaSahi MINGW64 ~/OneDrive/Desktop/CSCE Software Engineering/Updated fuelxpress work with tests/fuelxpre
ss
$ python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
October 23, 2023 - 19:25:13
```

Step9:

For Accessing the developed panel

 URL: http://localhost:8000

Step10:

For running the tests

   manage.py test dashboard

   manage.py test users

Backend: -

Sql Lite: Sql lite can be used as web browser which contains a self-contained serverless and embedded relational data management system

1. Authentication of Users and User Registration

    Save user account data in a SQLite database, Users can register and log in this database.

    Now, login using User credentials:(for example)

    User=" Hackelite"

    Password=" India@77"

2. **Django:** web framework that was used to create the application, runs with python.
3. **CrispyBootStrap4:** we used it to render forms in simple & elegant manner.
4. **Pillow:** Python imaging library for processing pictures.

5. **Python_Decouple:** we can segregate source code from settings of configuration.

6) Peer Review Feedback

The peer review session proved to be a source of valuable insights, enabling our team to collaboratively evaluate the project's status. We addressed existing challenges and brainstormed potential enhancements for the delivery process and user experience.

Furthermore, we engaged in a conversation about cancellation policies and the implementation of a login OTP sent to a specific mobile number, especially in situations of password expiration or password recovery. Moreover, we considered the implementation of an email notification to be dispatched to the customer once the service is completed. These discussions have the potential to drive our project forward and enhance its overall functionality.

7) Report Reflection

As part of Phase-1 implementation, we have developed the Signup, Login and Dashboard pages for Users and admins and is able to partially work on Order creation.

We Could incorporate a more Visually effective UI for these screens but are limited due to time constraints.

8) Member Contribution Table:

Team Members	Responsibilities
Karthik Setti	Signup Page, Trello and GitHub overlook, Compilation Instructions
Durga Devi Pampani	Signup Page, Report UML diagram
Uday Vandanapu	Login Page, Trello and GitHub overlook
Vaishnavi Adapa	Login Page, User Manual, Meeting Minutes
Sahithi Regalla	Admin Dashboard, Report Test cases, Compilation Instructions, Overall Documentation
Kavya Jangapalli	Admin Dashboard, Report Class and Sequence diagrams
Mounika Eddala	User Dashboard, Report Test cases, Member Contribution Table

Pranay Pendyala	User Dashboard, Report Test cases
Hemanth Janapala	DB setup, Report Requirement, Peer Review feedback and Reflection