**Requirements**

1. **Functional Requirements**

**a. User Registration & Authentication:**

* Users must be able to create an account using a valid email, username and password.
* Users can log in and log out, modify or delete their accounts from the profile page.

**b. User Profile:**

* Users should have access to a personal profile displaying their usage history.
* Users can view past gas stations and car washes visited, along with prices and transaction details.
* Users can update their profile information and modify account settings.

**c. Gas Station and Car Wash Listings:**

At the top of the main screen, users will see a map, followed by a list of search options: gas stations, car washes, or stations offering both. After selecting an option, the matching locations will appear in the list and on the map.

**d. Navigation and Routes:**

Once a location is selected, a route is displayed on the map. Additional details like name, price, and other relevant info will be shown below the map. Users can navigate back, return to the main page, or access their profile at any time.

**e. History Tracking:**

* The app will save user history about gas stations and car washes visited, including amounts paid, and location details.

**f. Map Navigation and Filtering:**

* Users can choose between showing gas stations, car washes, or both.
* They can return to the main page or the profile with navigation buttons.

**2. Non-Functional Requirements**

**a. Performance:**

* The application should load all data, maps, and listings quickly and respond in real time to user selections.

**b. Security:**

* User data, including login credentials and payment history, must be protected with encryption.

**c. Availability:**

* The app should be accessible 24/7 without significant downtime.

**d. Responsiveness:**

* The user interface should be responsive and work well on various devices, including smartphones and tablets.

**3. Technical Requirements**

**a. Frontend:**

* React + CSS. Ensure dynamic and responsive UI functionality.

**b. Backend:**

* Implement RESTful API for managing user accounts and gas station data using node.js and express.js.

**c. Authentication and Authorization:**

* OAuth 2.0 for secure login and account management.

**d. Notifications:**

* The system should allow users to receive notifications about account activity or promotions.

**e. Document Processing:**

* Functionality to process and display user data and transaction history effectively.