User Guide

1. Clone the GitHub repository to your local system:

> git clone <repository-url>

> cd <project-directory>

2. Install Dependencies

Ensure you are in the project's root directory, then install the required dependencies:

> npm install

3. Initialize the Database

Run the following command to initialize the database:

> node <path-to-initDB.js-file>

4. Start the Server

Use the following command to start the server:

> node <path-to-Server.js-file>

5. Access the Application

Use the **Live Server** extension in VS Code to host locally on port 5500.

Then, the application will be hosted on : <http://localhost:5500/><path-to-homepage-html-file>

Database Schema

Tables = {Users, ParkingLot, Reviews}

1. Users Table Structure

| Column | Data Type | Constraints |
| --- | --- | --- |
| id | INTEGER | PRIMARY KEY, AUTOINCREMENT |
| username | TEXT | NOT NULL |
| email | TEXT | NOT NULL, UNIQUE |
| password | TEXT | NOT NULL |

2. ParkingLot Table Structure

| Column | Data Type | Constraints |
| --- | --- | --- |
| id | INTEGER | PRIMARY KEY, AUTOINCREMENT |
| occupant | INTEGER | NOT NULL, DEFAULT -1, FOREIGN KEY → Users(id) |

3. Reviews Table Structure

| Column | Data Type | Constraints |
| --- | --- | --- |
| userId | INTEGER | NOT NULL, FOREIGN KEY → Users(id) |
| review | TEXT | NOT NULL |

Webpages and their functionalities :

1.SignUp webpage:

The page includes a sign-up form where users can create an account by entering their username, email, and password. Upon submission, the form data will be processed to create a new user account in the parking system.

2.SignIn webpage :

User authentication is done here and they are prompted to enter their email and password in the respective input fields. The form will be processed when clicked, to validate the credentials and allow access to the system.

3. Booking - Parking Slot Booking Page

Allows users to reserve a parking slot in advance. The parking slots are dynamically inserted into the database.

4. Parking lot info webpage :

This webpage provides information about the parking slot in the parking space.

5. Review webpage :

Customers can submit their reviews on this webpage.

The reviews of previous service users will also be displayed here.