Bus Reservation System (Django Project)

Overview

This project focuses on developing a **web-based Bus Reservation System** using Python Django framework. It enables users to register, log in, search routes, book tickets, and view/manage reservations with an interactive interface.

Objectives

- Build a full-stack web application with Python and Django.
- Implement CRUD functionalities (registration, login, booking, ticket management).
- Integrate Google Maps for route visualization.
- Provide graphical data visualization for booking statistics.

Technologies Used

- Backend: Python, Django Framework
 Frontend: HTML, CSS, JavaScript
- Database: SQLite
- APIs/Tools: Google Maps API, Django ORM

Project Structure (GitHub)

- Source code Django application (models, views, templates)
- Database schema SQLite DB files
- Screenshots application interface and outputs
- Documentation project report and user guide

Key Features

- Online ticket booking with user authentication
- Route search and seat reservation
- Integration with Google Maps
- User-friendly and responsive interface

Key Learnings

- Practical experience in Python Django web development.
- Knowledge of CRUD operations and relational databases.
- Hands-on integration of APIs (Google Maps).
- Understanding of full-stack development workflow.
- Project documentation and repository structuring.