# \*\*NAAN-MUDHALVAN-Vidhyadhran-5117-PCE\*\*

\*\*Project Overview:\*\*

\*\*Setup and Installation:\*\*

Install Python and Django.

Set up the project directory structure.

Configure Django settings for database connection.

\*\*Database Design:\*\*

Design the SQL database schema to store bus routes, seat availability, reservations, and user information.

Implement database models using Django's ORM (Object-Relational Mapping).

\*\*User Authentication:\*\*

Implement user authentication and authorization using Django's built-in authentication system.

Allow users to sign up, log in, and manage their profiles.

\*\*Bus Routes and Availability:\*\*

Create a module to manage bus routes, including adding, editing, and deleting routes.

Implement functionality to check seat availability for each bus trip.

\*\*Reservation System:\*\*

Develop a reservation system allowing users to select seats, specify travel dates, and book tickets.

Handle reservation conflicts and ensure data integrity.

\*\*User Dashboard:\*\*

Create a user-friendly dashboard where users can view their reservations, cancel bookings, and update their profiles.

\*\*Admin Panel:\*\*

Build an admin panel for administrators to manage bus routes, view reservations, and monitor system activity.