Project Report (MAD - I)

Student Details

Name: Chenchu Vinay B

Rollno: 23f2003186

Email: 23f2003186@ds.study.iitm.ac.in

Project Details

Project Title: Household Services Application

Question Statement: The objective of this project is to develop a multi-user household services application using Flask, Jinja2 and SQLite. The application serves as a comprehensive platform for home servicing, facilitating interactions between admins, service professionals, and customers.

Approach

The development process followed these key steps:

1. Defining User Roles:

Admin: Has root access, manages users and services.
Professional: Provides services, can accept/reject requests.

Customer: Books services, can post reviews.

2. Designing the Database:

- Developed an Entity-Relationship (ER) diagram to map out the relationships between different entities such as users, services, and service requests.
- Database has total 6 tables with well defined attributes to match the functionality of the application.

3. Implementing the Core Functionalities:

- User Authentication: Developed separate register forms for each user type (Professionals and customers), login is common for all 3 based on priority.
- Admin Dashboard: Created interfaces for the admin to manage users and services.
- Service Management: Enabled creation, updating, and deletion of services by the admin.

- Service Requests: Allowed customers to create, edit, and close service requests.
- Service Search: Implemented search functionality for customers to find services by location, name, or pin code.

4. Validations:

- o Implemented frontend validations using HTML5.
- o Included backend validations within Flask controllers.

5. Styling and User Interface:

o Enhanced user experience with aesthetically pleasing CSS.

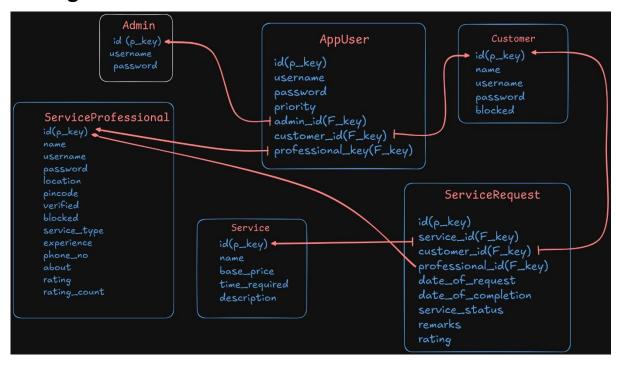
Frameworks and Libraries Used

Backend: Flask

Frontend: Jinja2

• Database: SQLite

ER Diagram



Presentation Video

 $https://drive.google.com/file/d/1xcBDOrfo_iMF5A7unafPTKDvJsunp9n_/view?usp=drive_link$