{ MAD 1 PROJECT REPORT }

[Household Services Application]

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Student Details

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About me- I'm Anjali Dogra, a BS degree student with a passion for coding and problem-solving. I love exploring new technologies, from web design to machine learning. This project, my first involving full database integration, challenged me in many ways but ultimately boosted my confidence and deepened my skills in development.

Project Description

This multi-user household service application serves as a comprehensive platform connecting customers, service professionals, and an admin. Customers can browse and book services as needed, while professionals have the ability to accept or reject requests. The admin oversees and monitors the entire application to ensure smooth operation and quality service.

How I approached the problem statement?

To tackle the problem, I first analysed the needs of each user type—admin, service professionals, and customers. I outlined key functionalities: customers should easily browse and book services, professionals should manage requests, and the admin should oversee all operations.

Next, I planned the application's structure, designing a database to manage user information, service requests, and status updates efficiently. I chose a tech stack that included Flask for backend logic, SQL for database management, and Bootstrap for a user-friendly interface. With each feature, I focused on making the system intuitive and reliable, conducting testing and iterating to ensure seamless interaction between users.

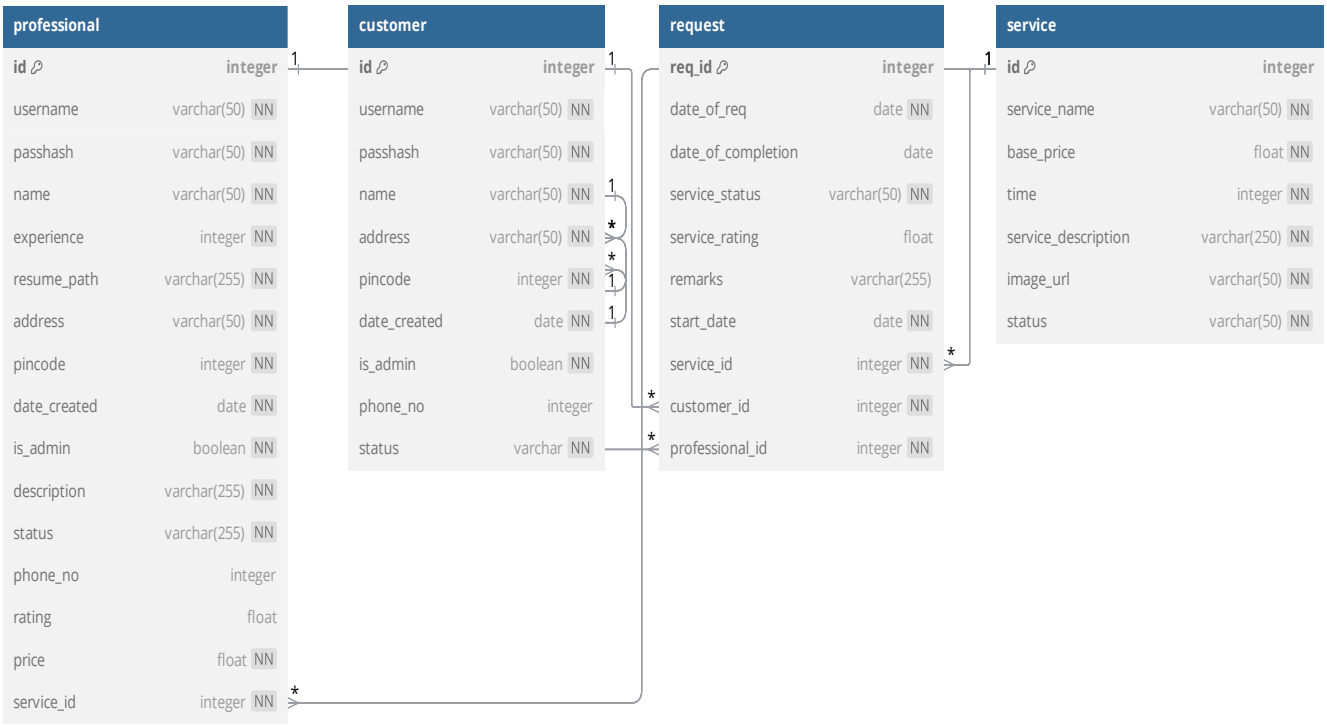
Frameworks and libraries used

1. Flask
2. Flask-SQLAlchemy
3. SQLite
4. Werkzeug

5. Matplotlib
6. HTML/CSS/JavaScript/Bootstrap
7. Python Standard Libraries-os, datetime, io, time

DB Schema Design

The database design consists of four main models: Professional, Customer, Request, and Service. Professionals and customers are linked to service requests, which store details like dates, status, ratings, and remarks. The Service model defines services with attributes like name, price, and description, while relationships connect all models.



Project Demonstration Video

https://drive.google.com/file/d/1rSXMCpoFpQz0jfoqq_1ZUuHyola55Zqd/view?usp=sharing