

Household Services Application

YourHome Service

Project Report By **Udit Maurya**

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Modern Application Development-I

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Student Details :

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About me: I'm someone who's always curious to learn, especially when it comes to tech. Right now, I'm focused on understanding neural networks and how they can solve real-world problems in smart ways. I've also got a hobby for tinkering with IoT electronics and combining it with machine learning—there's something exciting about bringing devices to life and seeing them work together. For me, tech is more than just a field; it's a place where I get to be creative, keep pushing myself, and always make things a little bit better.

Project Description :

This Household Services Application (*YourHome Service*) is an easy-to-use platform that helps people to find and book reliable home service professionals. Whether someone needs help with cleaning, repairs, renovation or installations, they can quickly connect with experts in their area. For service professionals, it's a great way to find new clients and manage all bookings in one place. An admin oversees everything to keep the platform running smoothly, making it safe and dependable. This application offers professionals the opportunity to grow their business by expanding their client base and reaching more customers.

How I approached the problem statement ?

I started working on this project on 27th September with no prior experience in developing a complete application. I had just finished the MAD-1 theory and had only referred to course tutorials from the previous term. Despite feeling uncertain at first, today its 10th November, I've surprised myself by completing the project successfully.

I started by creating templates, which helped me understand that which data is required to be stored in database. Initially, my database model wasn't perfect, but through experimentation and trial, I was able to refine it. Having completed DBMS in the previous term, I had theoretical knowledge about keys and operations on tables, but while working on this project taught me a lot more through practical application. Followed a tutorial by Parwiz Forogh on YouTube, which was a great resource for me learning the basics of Flask CRUD operations. From there, I also learned how to use modals instead of creating new templates for certain operations.

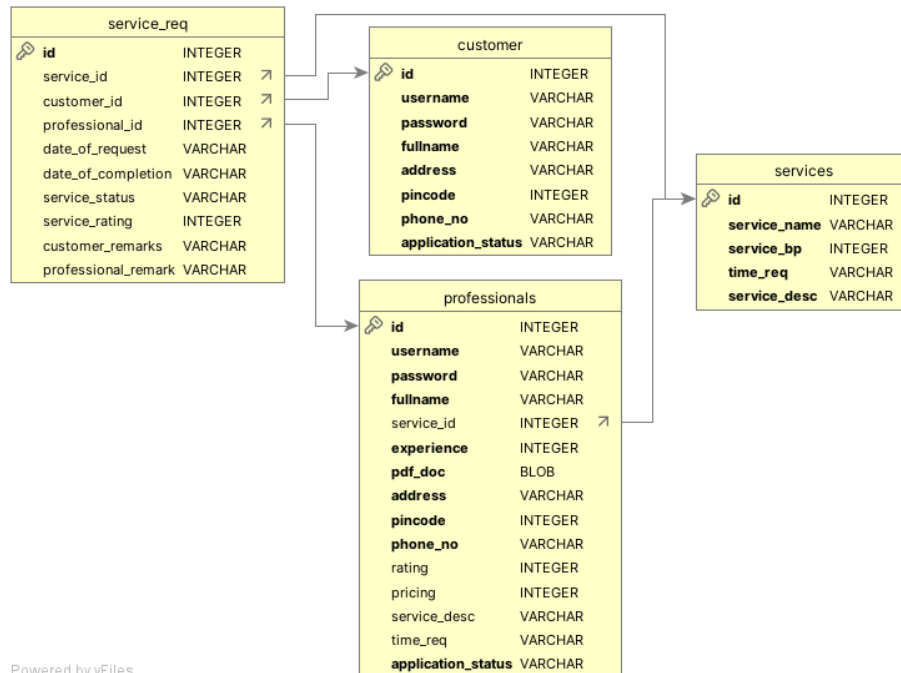
All my hard work paid off, and I completed the project ahead of the second deadline. However, I plan to submit it in Cycle-3 due to my B.Tech majors overlapping with the Cycle-2 viva schedule. Working on this application taught me the importance of consistency, perseverance, and adaptability in overcoming challenges and achieving project goals.

Technologies used :

1. **HTML/CSS/Bootstrap/JavaScript:** Frontend technologies for user interface design and interactivity.
2. **Flask:** Backend framework for building the web application.
3. **SQLAlchemy:** ORM (Object-Relational Mapping) tool for database interactions with application.
4. **SQLite:** Database management system for storing application data.
5. **Datetime:** Python library for handling date and time operations.
6. **Jinja2:** Template engine for rendering dynamic HTML content.
7. **Matplotlib:** for creating different types of graph/charts on admin/customer/professionals dashboard.

Dbms schema :

The database schema includes tables for customers, professionals, services, and service requests. These entities are interconnected to track various activities within the system. Each table contains essential fields such as customer details, professional information, requested service details, and the services available within the application. Relationships are established to manage interactions, such as requesting services and reviewing the service after completion.



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