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My name is Tanisha Sushil. I am a student of Diploma level at Indian Institute of Technology, Madras. Apart from this, I have completed my graduation in Chemical Engineering from Rajiv Gandhi Institute of Petroleum Technology, Jais, Uttar Pradesh. I have keen interest in Machine Learning, Deep Learning and Artificial Intelligence.

Description

A-Z Household Services is a comprehensive platform designed to connect users with professional service providers for various household tasks. Users can browse, select, and book services such as cleaning, plumbing, and electrical repairs. The platform offers detailed descriptions, service charges, and estimated service times, making it easy for users to find the right professionals based on their needs. Service providers (professionals) can manage their profiles, including their profession, experience, and approvals. The project incorporates a secure booking system, user management, and a service request history, all accessible through an intuitive, user-friendly interface.

Technologies used

flask: Flask is a web framework which is used as backend server for this application

flask_SQLAlchemy: flask_SQLAlchemy is a flask extension that uses SQLAlchemy to connect to the database server

Matplotlib: is a comprehensive plotting library. We are using this library to plot bar graphs for insights.

HTML/CSS/JINJA/BOOTSTRAP: Bricks for this application. We are using these to create our frontend for our application.

Architecture and Features

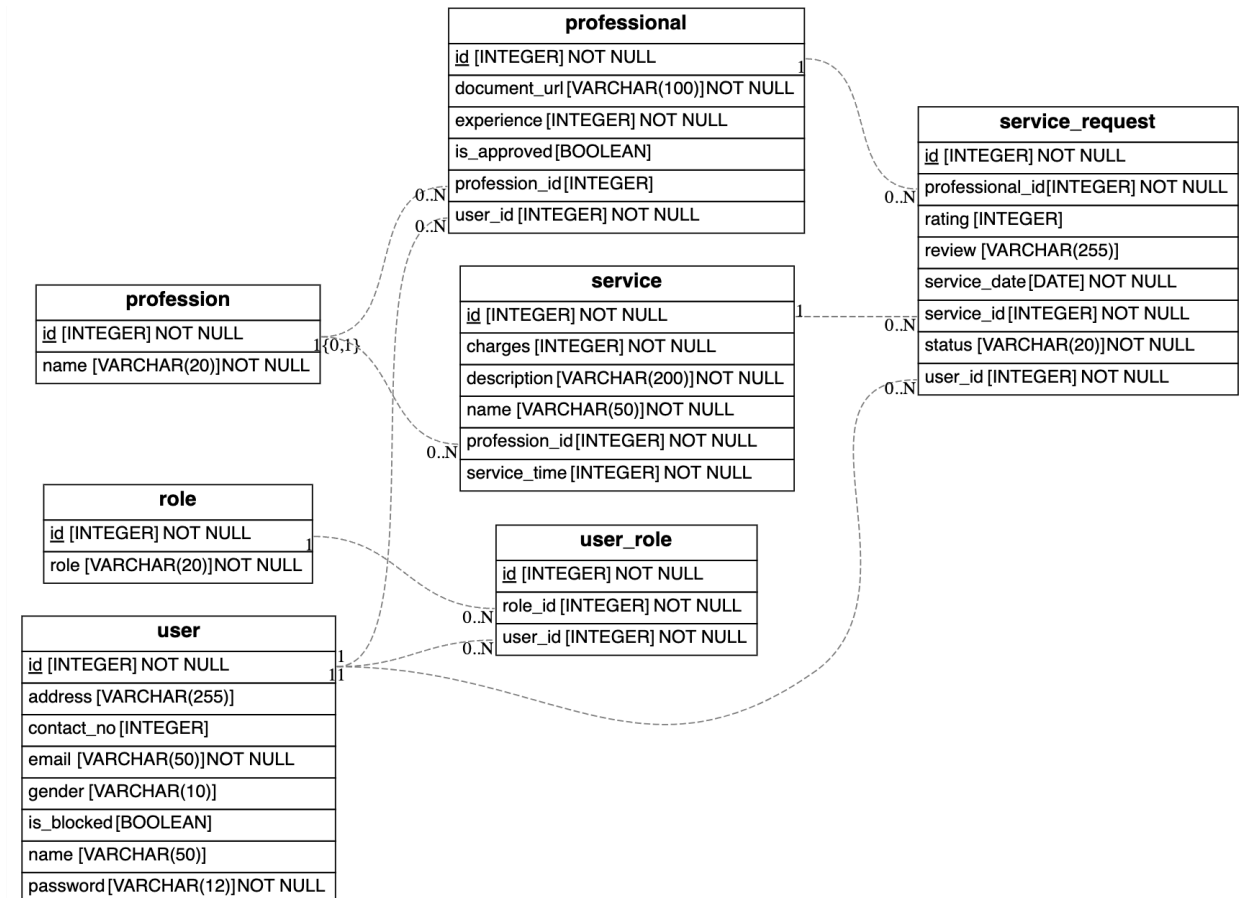
The application is a web-based **service management platform** built with Flask, designed for **user authentication, role-based access**, and streamlined management of services and professions. Key features include:

- **User Management:** Register, authenticate, and assign roles to users (e.g., admin, professional).
- **Profession & Service Management:** Admins can add and manage professions and related services, allowing users to browse and book services.
- **Professional Profiles:** Users can register as service providers, subject to admin approval, associating them with relevant professions.

- **Service Requests & History:** Users can book services, track service requests, and view booking history.
- **Ratings & Reviews:** Users can rate and review completed services, building credibility for service providers.

This structure uses SQLAlchemy for database models, Jinja templating for dynamic content, and a robust MVC architecture to ensure maintainability and scalability.

ER Diagram



Video Link:

<https://drive.google.com/drive/folders/1NL9O26BKBRQLOQH4M1FoCFaMT9QGgU3G>