## **MAD-1 Project Report**

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- **Project Question:** Household Services Application

It is a multi-user app (requires one admin and other service professionals/ customers) which acts as platform for providing comprehensive home servicing and solutions.

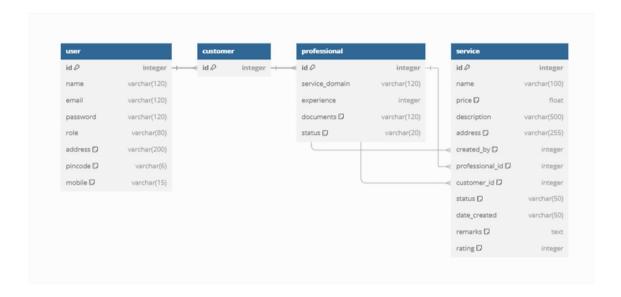
My Approach: I used the **Flask** web framework to build the application, and used **Jinja2** for dynamic HTML rendering, **Bootstrap** for responsive design, and **SQLite** as the database to store user and service data. The application has the following core functionalities:

- **Customer functionalities**: Searching for services, making requests, viewing requests, and leaving reviews.
- **Professional functionalities**: Accepting or rejecting service requests and viewing their performance metrics.
- Admin functionalities: Managing users, services, and monitoring activity.

I structured the database with separate tables for **users** (customer and professional roles), **services**, and relationships between users and services. I implemented role-based access control using Flask sessions and redirections based on user roles.

- Frameworks and Libraries Used:
- **Flask**: For building the web application and handling HTTP requests.
- Jinja2: Template engine used for rendering HTML pages.
- **SQLite**: A lightweight database for storing user and service information.
- Bootstrap: For responsive UI design.
- SQLAlchemy: ORM for database interactions.

- Werkzeug: Provides utility functions for file handling (e.g., secure\_filename) and password hashing
- Flask-WTF: For form handling (if forms are used beyond just search).
- OS, Seaborn Matplotlib and Datetime
- Database Schema:



- Drive Link for the project video:

https://drive.google.com/file/d/1CnPlO66gn2OFmpCnSk7JRKIV2EgukuGo/view?usp=drive link