Modern Application Development 2

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Introduction

The Household Service Manager is a web-based platform connecting customers with service professionals for booking and managing household services. It ensures service quality through verification. Built with Flask, it uses SQLAlchemy for database management and Flask-Login for authentication, with a modular blueprint structure for efficient routing.

Technical Stack

Backend

- **Flask** (Python framework)
- **SQLAlchemy** (ORM for database)
- **Flask-Login** (Authentication)
- **Werkzeug** (Security utilities)

Frontend

- **Bootstrap** (Responsive design)
- **Vue.js** (Dynamic UI)
- **Axios** (API requests)

Database

- **SQLite** (Primary database)
- **Models:** User, Professional, Customer, Service, ServiceRequest, Review

API Resources

Authentication

- POST /auth/login
- POST /auth/register
- POST /auth/logout

Service Management

- GET /service/list
- GET /service/detail/<service_id>
- GET /service/search/<query>
- POST /service/new
- PUT /service/edit/<service_id>
- DELETE /service/delete/<service_id>

Professional Management

- GET /professional/dashboard
- GET /professional/profile
- POST /professional/profile/create
- PUT /professional/profile/edit
- GET /professional/requests
- POST /professional/request/accept/<request_id>
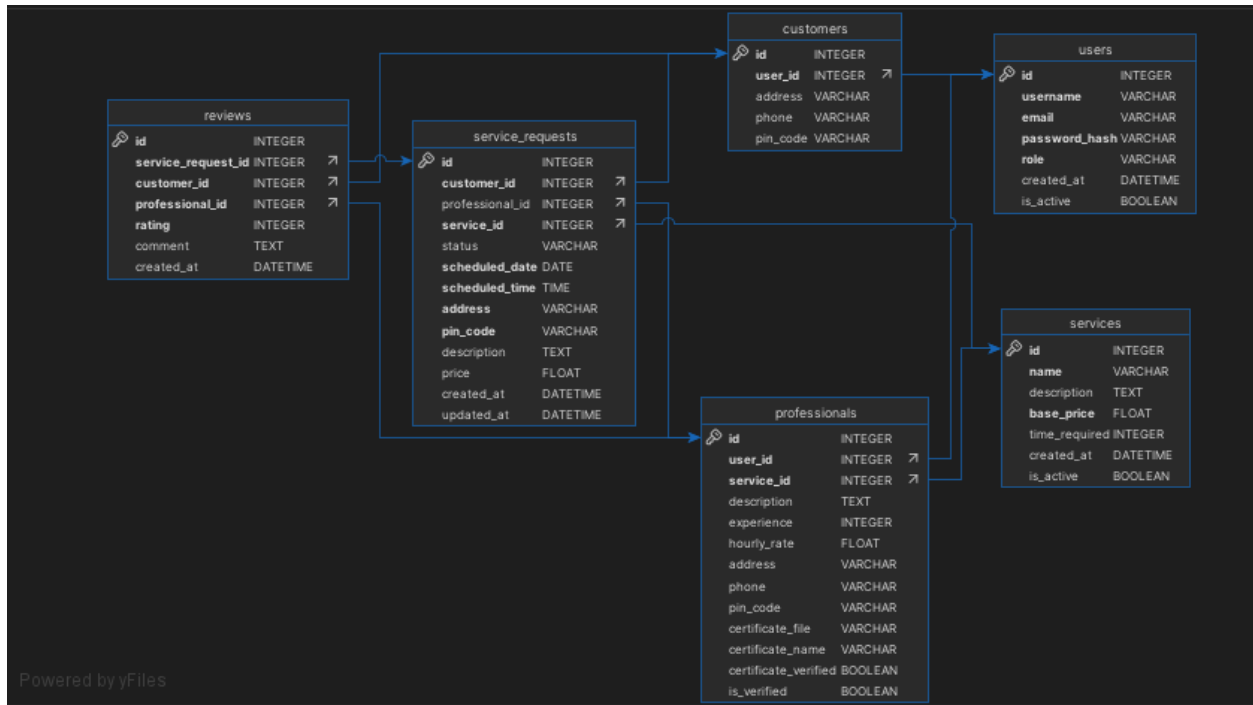- POST /professional/request/reject/<request_id>

Customer Management

- GET /customer/dashboard
- GET /customer/book-service
- POST /customer/service-request
- GET /customer/requests
- POST /customer/request/cancel/<request_id>

Admin Controls

- GET /admin/dashboard
- POST /admin/verify-service
- GET /admin/reports
- DELETE /admin/remove-user/<user_id>

ER diagram

Video URL :

https://youtu.be/_yVOk1VGzWU