MAD-2 Project Report

1. Student Details

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2. Project Details

2.1 Project Title

Household Services Application - V2

2.2 Problem Statement

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

2.3 Approach to the Problem Statement

To address the problem statement, I followed a structured approach:

1. **System Design**: I designed the system architecture, including the database schema, user interfaces, and API endpoints. An ER diagram was created to visualize the relationships between system entities.

2. **Implementation**: I developed the application using Flask as the web framework and Sqlite for data storage and frontend using Vue CLI. RESTful APIs were implemented for seamless communication between the frontend and backend.

3. Frameworks and Libraries Used

Backend Framework: Flask, SQLite, Redis and Celery

Frontend Framework: Vue3 (CLI) , Bootstrap

4. API Resource Endpoints

API Base URL: http://127.0.0.1:5000

API Endpoints:

- **User Endpoints:**
    POST - /api/register: Register a new user, /api/login: User login, /api/adminlogin: Admin login,

- **Admin Endpoints:**
    POST- /api/admin/create_service: Create new Service, PUT- /api/admin/update_service/:service_id:Update a Service, /api/admin/blacklist_user/:user_id : Blacklist a user, /api/admin/approve_provider/:provider_id: Approve a service provider DELETE-

/api/admin/delete_service/:service_id : Delete a service, GET /api/admin/summary: Get admin Summary

- **Customer Endpoints:**

    GET - /api/customer/service_requests : Get customer service requests, PUT- /api/customer/edit_service_requests : Get customer service requests, GET- /api/customer/summary -Fet customer details, GET - /api/customer/services -Get services for a customer.

- **Service Providers Endpoints:**

    PUT- /api/professional/accept_service_request/:request_id :Accept a service request, GET- /api/professional/service_requests :Get professional service requests GET- /api/professional/details :Get Professional
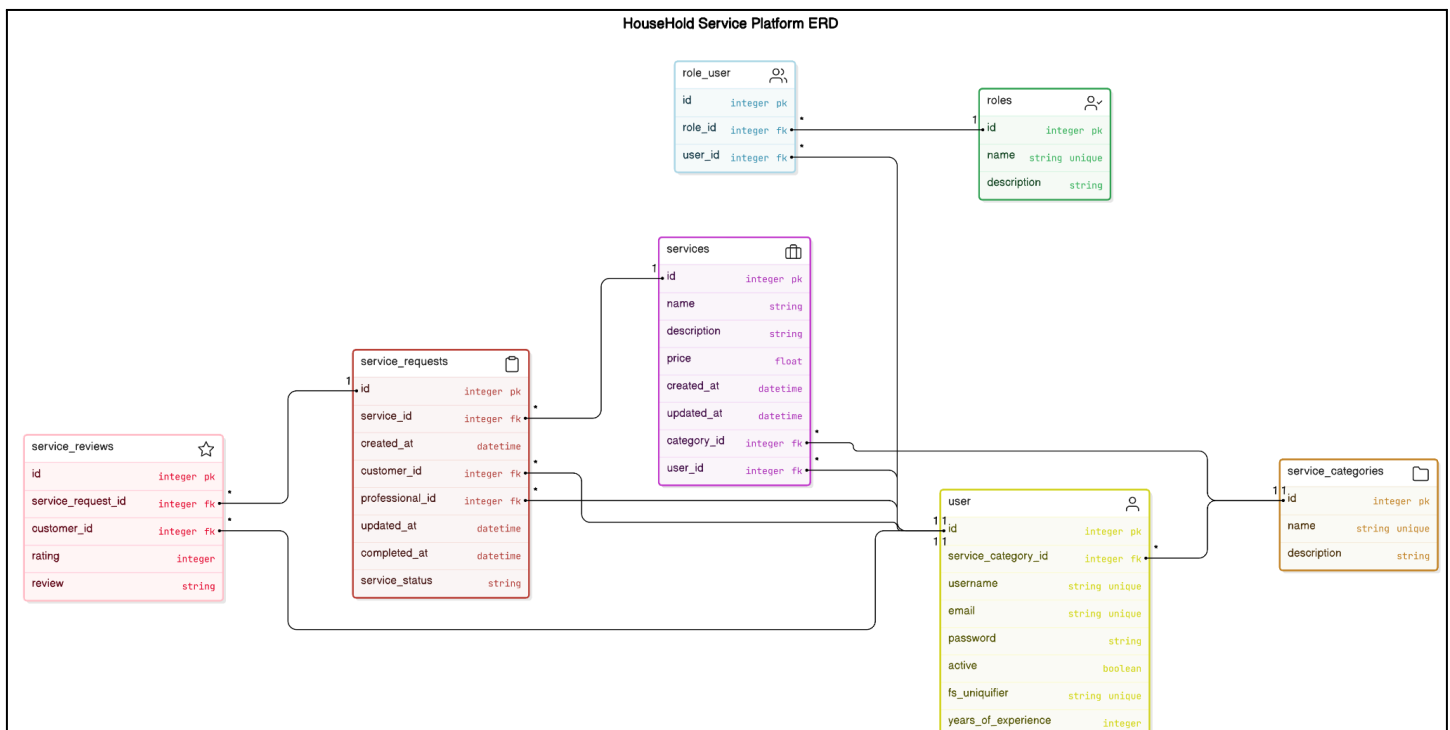
- **Service Endpoints:**

    GET /api/services -Get all services, GET /api/services/:service_id : Get service details, GET- /api/service_categories :Get service categories

- **User Management Endpoints:**

    GET /api/users :Get all users, GET- /api/user/:user_id - Get user details

HouseHold Service Platform ERD

6. Presentation Video

Drive Link to Presentation Video:

🎬 21f1006589_mad2_demo.mp4