# **Report for Household Services Application**

# Student

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An enthusiastic individual eager to absorb new skills and techniques that will pave the way for my academic and professional growth

# Description

The Household Services Application project is a multi-user app which acts as a platform for providing comprehensive home servicing and solutions by connecting service professionals with customers. The app allows seamless booking, tracking, and management of services, with admin oversight for smooth operations.

# Project Approach

I started with creating the models for the database, and then set up the environment. For the backend, I used Flask to create API endpoints for managing services, customers, and professionals, with auth and Celery for scheduled tasks. The frontend, built with Vue.js and Bootstrap, which communicate with the backend via the Fetch API. MailHog was used to test the email functionality.

## Frameworks and Libraries

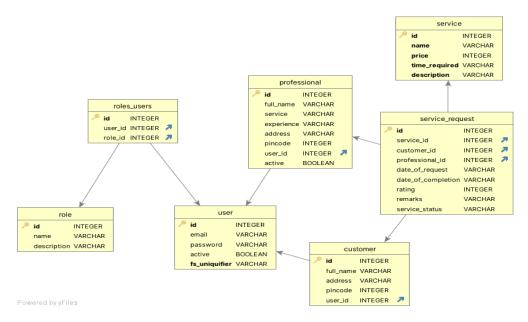
#### Backend:

Flask | Flask-SQLAlchemy | Flask-RESTful | Flask-Security-Too | Flask-Caching | Redis | Celery | Werkzeug | Jinja2 | SMTP | MailHog | datetime

#### • Frontend:

Vue.js | Bootstrap | Chart.js

# DB Schema Design



# **API Resource Endpoints**

#### /api/services:

GET: Retrieve all services.

o **POST**: Create a new service.

#### 2. /api/customers:

GET: Retrieve all customers.

POST: Create a new customer.

#### 3. /api/professionals:

GET: Retrieve all professionals.

o **POST**: Create a new professional.

## 4. /api/update/service/<int:id>:

o **GET**: Retrieve a specific service by ID.

o **POST**: Update a specific service by ID.

## 5. /api/request/service:

o **GET**: Retrieve all service requests.

o **POST**: Create a new service request.

## 6. /api/accept/service-request/<int:id>:

GET: Reject a service request by ID.

o **POST**: Accept a service request by ID.

# 7. /api/service-request/customer:

o **POST**: Retrieve service requests by customer.

# 8. /api/close/service-request/<int:id>:

POST: Close a service request by ID.

# 9. /api/user-details:

GET: Retrieve details of the current user..

## 10. /api/update-user-profile:

o **POST**: Update the profile of the current user.

## Features

Core Features	Customer-Specific	Professional-Specific	Admin-Specific
Login, Register,	View/Search Services	Accept/Reject Service	Approve/Reject
Password Auth		Requests	Professionals
Role Segregation	Create/Edit/Close	Service-Based Request	Block
(RBAC)	Service Requests	Segregation	Customer/Professional
User Dashboard &	Service	Scheduled Daily	Create/Update/Delete
Edit User Profile	Feedback/Rating	Reminders (E-Mail)	Services
Caching and Expiry	Monthly Activity Reports (E-Mail)		ASync Service Detail Exports (E-Mail)