

MAD-2 Project Report

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Problem Statement-

Household Services Application - V2

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.

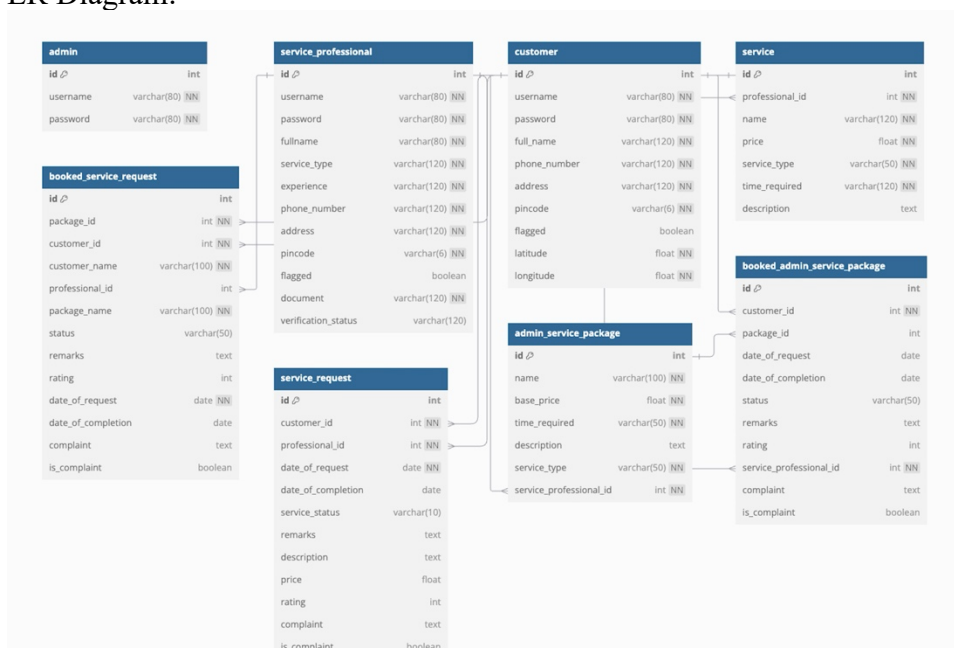
Approach to Problem Statement:

1. Developed a multi-user platform with distinct roles: Customer, Service Professional, and Admin, each with specific functionalities and permissions.
2. Implemented a comprehensive service request workflow, enabling customers to request services, service professionals to accept/reject requests, and customers to close requests upon completion.
3. Introduced a review and rating system, allowing customers to rate service professionals based on their experience once the service request is completed.
4. Designed and integrated an Admin dashboard for effective platform management, including features such as blocking/unblocking users, viewing service requests, viewing the insightful charts and managing home fix packages
5. Ensured secure authentication and authorization by implementing role-based access control, allowing only authorized users to access certain features using the JWT Tokens.

Technologies Used:

Flask, SQLAlchemy, SQLite, HTML, CSS, Vue.js (Frontend), Celery (Background tasks)

ER Diagram:-



API Resources (Endpoints)

Admin

1. POST / admin_signup', (Signup of Admin)
2. POST admin_login', (Login of Admin)
3. PATCH users/block/<int:user_id> (Block users)
4. POST approve_professional/<int:id> (Approve professionals)
5. POST request_activity_report' (Send mail to Activity Report)

Customer

1. POST / customer_signup', (Signup of Customer)
2. POST customer_login', (Login of Customer)
3. POST /service_requests', (Create service Request)
4. GET /service_packages (Search for Service Packages)
5. GET booked_service_packages/customer/<int:customer_id> (Booked Service Packages by a Customer)

Service Professional

1. POST / service_professional_signup', (Signup of Service Professional)
2. POST /service_professional_login', (Login of Service Professional)
3. PATCH
/api/booked_service_packages/<int:booked_service_request_id>/accept'
(Accept the package)
4. PATCH /api/booked_service_packages/<int:booked_service_request_id>/reject',
(Reject the Package)
5. GET professional/booked_service_packages/completed/<int:professional_id>', methods=['GET'])
(View the booked service Packages)

Demo of the Project:-

<https://drive.google.com/file/d/1Bx5b9z-it5MB1S2gZJ2RznhGRleOgceM/view>