HOUSEHOLD SERVICES APPLICATION - V2

PROJECT REPORT

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PROJECT DETAILS:

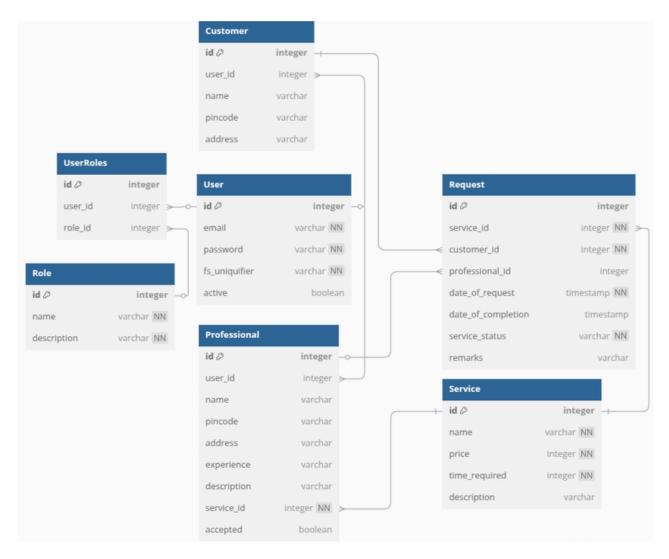
Problem Statement:

To make a multi-user app which acts as platform for providing comprehensive home servicing and solutions. Customers can book services they need such as plumbing, lawn care, laundry service, etc... whereas professionals can register them on app to provide their service. Once they are verified by admin, they start receiving service requests.

Technologies Used:

- 1. **Flask:** A lightweight Python framework used for backend API development.
- 2. **VueJS:** A JavaScript framework designed for building dynamic and interactive user interfaces.
- 3. **Bootstrap:** A CSS framework that ensures responsive and visually appealing designs.
- 4. Flask-SQLAlchemy: An ORM tool for simplifying database management and interactions.
- 5. **Flask-Security:** Simplifies adding authentication, role management, and security features to Flask apps.
- 6. Flask-Caching: Improves application performance with caching capabilities.
- 7. **Celery:** Handles background tasks like reminders and periodic reports asynchronously.
- 8. **SQLite:** A lightweight database solution for storing user data and service-related information.

DB Schema:



ER Diagram of Application

Model Used:

User: Used to keep track of all users.
 Role: Customer, Professional, Admin

3. UserRoles: Role of Users

4. Customer: Customer Details

5. Professional: Professional Details

6. Services: Used to keep track of Services

7. Request: Request Details

Directory Structure:

```
MAD_2_Project/
\vdash—— app.py
├── celery_worker.py
├── frontend/
   -- app.is
    ├── index.html
    ├── components/
       ├── Navbar.js
       └── ServicsCard.js
       — pages/
       ├── admin/
           ├── AdminDashboard.js
           ├── EditServiceDisplay.js
           ├─ NewService.js
           ├── Block.js
           ├── EditService.js
           └── ProfManagement.js
          — customer/
           --- CompleteProfileCustomer.js
           --- CustomerRequest.js
           --- ProfileEdit.js
           └── Review.js
           — prof/
           ├── CompleteProfileProf.js
           ├── ProfDashbord.js
           └── ReqProfessional.js
       ├── LoginPage.js
       ├── ProfessionalReview.js
       ├── RegisterPage.js
       ├── ServiceDisplay.js
       └── SrevicesList.js
      -— utils/
      ├── router.js
      └── store.js
    - backend/
    ├── celery/
      ├── celery_aryan.py
      ├── celery_schedule.py
      -- mail_service.py
      ├── tasks.py
 —— config.py
├── create_initial_data.py
├── instance/
├── models.py
├── resources.py
├── routes.py
```

Important API's Used:

- Authorization:
 - Register: /register
 - ∘ Log in: /login
- Services:
 - Services: /api/services
 - Particular Service: /api/services/<int:service_id>
- Request:
 - Request: /api/request
- Professional:
 - o Professional: /api/prof
 - Particular Professional: /api /prof/<int:service_id>
- · Customer:
 - Customer: /api/cust
- Review:
 - o Reviews: /api//review/<int:request_id>

Demonstration Video:

https://drive.google.com/file/d/10JmOcXPuecY45RM Z6blqUNcxcC2DXJvZ/view?usp=sharing