

HOUSEHOLD SERVICES APPLICATION - V2

PROJECT REPORT

Prepared By: Sarita Kumari
Roll no: 22f3000364

Demonstration Video: <https://youtu.be/A3eFU59Wbjw>

Problem Statement:

I'm planning to develop a multi-user platform for home services, where customers can book various services like plumbing, lawn care, and laundry. Professionals can register on the platform to offer their services, and once verified by the admin, they will start receiving service requests from customers.

Technologies Used:

- **Flask** - A minimalistic Python framework for developing backend APIs efficiently.
- **VueJS** - A progressive JavaScript framework for creating dynamic and interactive front-end experiences.
- **Bootstrap** - A responsive CSS framework that enhances the app's visual appeal and adaptability across devices.
- **Flask-SQLAlchemy** - An ORM that simplifies database interactions and management in Flask applications.
- **Flask-Security** - Provides built-in authentication, role-based access control, and security features for Flask apps.
- **Flask-Caching** - Enhances application performance by enabling caching mechanisms.
- **Celery** - A task queue that handles asynchronous background processes like reminders and scheduled reports.
- **SQLite** - A lightweight and self-contained database for managing user and service-related data efficiently.

Model Used:

- 1.**User:** Used to keep track of all users.
- 2.**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

Important API's Used:

Authorization:

Register: /register Log in: /login

Services:

Services: /api/services Particular Service: /api/services/

Request:

Request: /api/request

Professional:

Professional: /api/prof Particular Professional: /api /prof/

Customer:

Customer: /api/cust

Review:

Reviews: /api//review/

Directory Structure:

```
Household_service-v2/
├── app.py
├── celery_worker.py
├── frontend/
│   ├── app.js
│   ├── index.html
│   ├── components/
│   │   ├── Navbar.js
│   │   └── ServicesCard.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_sarita.py
│       ├── celery_schedule.py
│       ├── mail_service.py
│       └── tasks.py
├── config.py
├── create_initial_data.py
├── instance/
├── models.py
├── resources.py
└── routes.py
```