

MAD-II Project Report

Project Statement: To create a Household Services Application.

Approach :

1. User Login/Signup

For user signup, I have created a portal where it asks for username and password and confirmation for the password. Then in this database, it checks whether the username already exists or not, if it exists then it alerts the user to choose some other username. In case of correct username and password, it redirects to a new page where in case it is a Professional, it asks for the Service it would like to provide from the list of available services, and also prompt to upload a Resume, which would then be forwarded to Admin, and until the Admin approves, the user won't be able to access the Dashboard. For a Customer, the User Login/Sign is a direct, and it redirects to the Dashboard directly. For the Admin, there is a universal id and password of 'admin' and '#pas123' respectively.

2. Creation, Deletion and Updation of Services by the Admin

The Admin has been given the options to create services, which will then be available to the newly signed up Professionals. The Admin can also update the Details/ Base Payment of the Service. In case the Service has not been opted by any professional yet, the admin can also delete the Service.

3. Admin Features

Admin has the option to browse Users and set them as Active/Inactive, once set to Inactive, they won't be visible in the Search User. The Admin may trigger a Batch export, which exports all the data present about the Services opted into CSV format, and then downloads it. The Admin may also view the site stats, such as number of active users, etc. It is shown in the Different types of charts, like Bar, Pie chart. Admin may also browse all the services, and search for all the users.

4. Customers

Customers may browse the services and request a service from a particular professional by offering a price and details of the service. He or she may view their ongoing and past services, which they have taken. For the ongoing task, they may mark it as completed and give a remark and a rating to the professional. They may browse the Professional based on their Username, Pincodes etc.

5. Professional

Professional after logging in can view the services they have been requested. They may accept, update the Details of the requested Service.

6. Mails

When a User Signup, they receive a Welcome mail, also each customer receives a monthly mail about the services that are ongoing, and whenever a new service request is created, they receive a mail about saying that a new service has been requested from them.

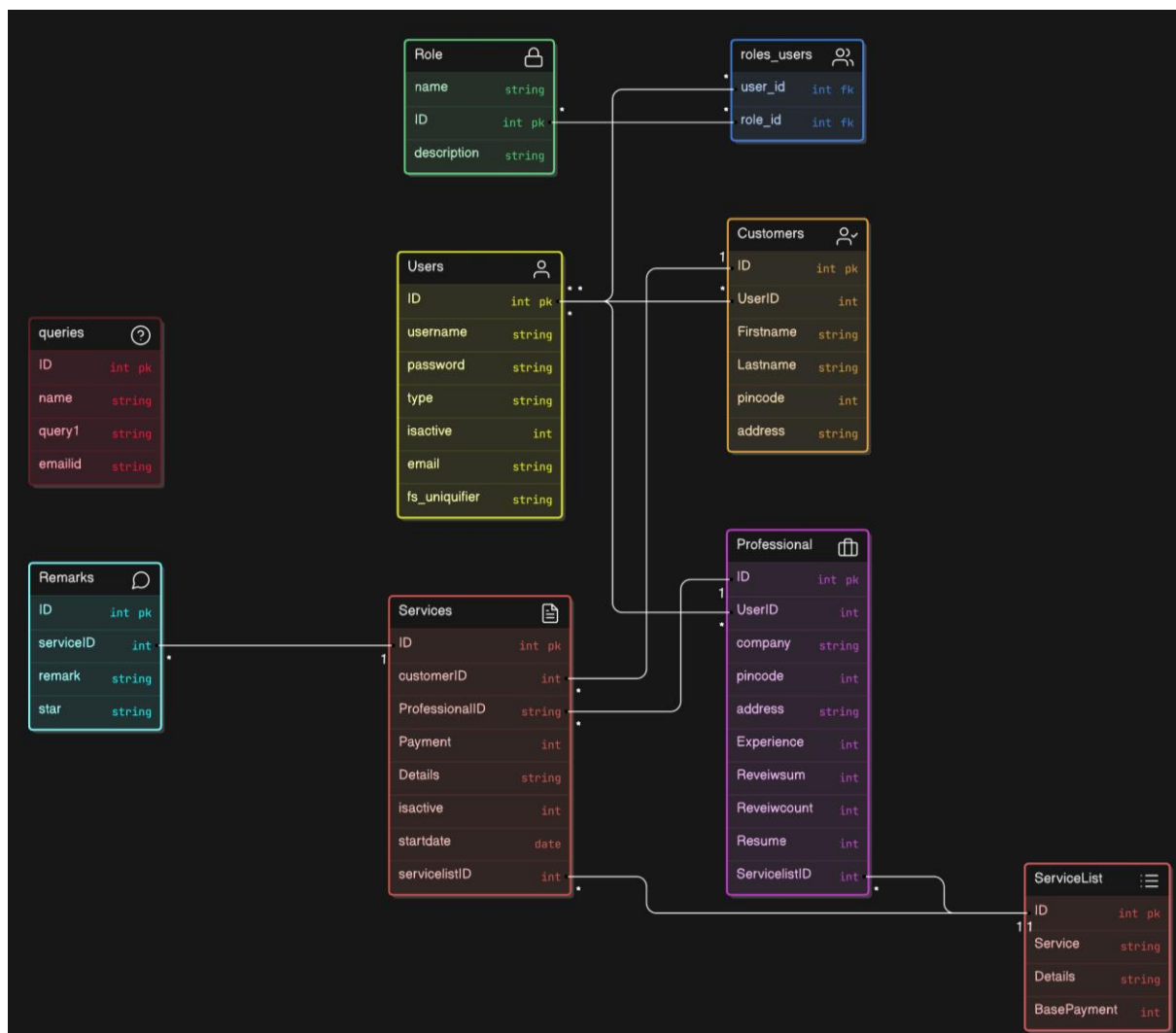
7. Other Features

To keep the Backend as Light as possible, most of the computation has been done in the frontend using Vue.js. This makes the request response faster, and makes the site a lot more faster and efficient.

Frameworks and Libraries used:

- flask - Backend
- flask_security – Security
- flask_caching - Caching
- flask_sqlalchemy – SQLite Database
- matplotlib – Generating Graphs
- Celery and Redis – For Scheduling Backend Jobs
- Vue.js – For frontend

ER Diagram:



Drive link:

<https://drive.google.com/file/d/1wYRT-M-lfKujNLNg9WjgklmEXZpx1LoZ/view?usp=sharing>

(project demonstration)