

Household Services Application

Project Report

Student Details:

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Course: Modern Application Development I – Project

I am Pratyush Parth, a Diploma level student of IIT Madras BS Degree Program. Through this project, I am seeking to learn the basics of application development.

Project Details:

It is a multi-user application with one admin and multiple customers/service professionals. It acts as platform for providing comprehensive home servicing and solutions. It provides options for multiple services like Cleaning, Plumbing, Repairing services, etc. There are options to create and edit services, block and unblock the service professionals/customers by the admin, and create and edit requests by the customers.

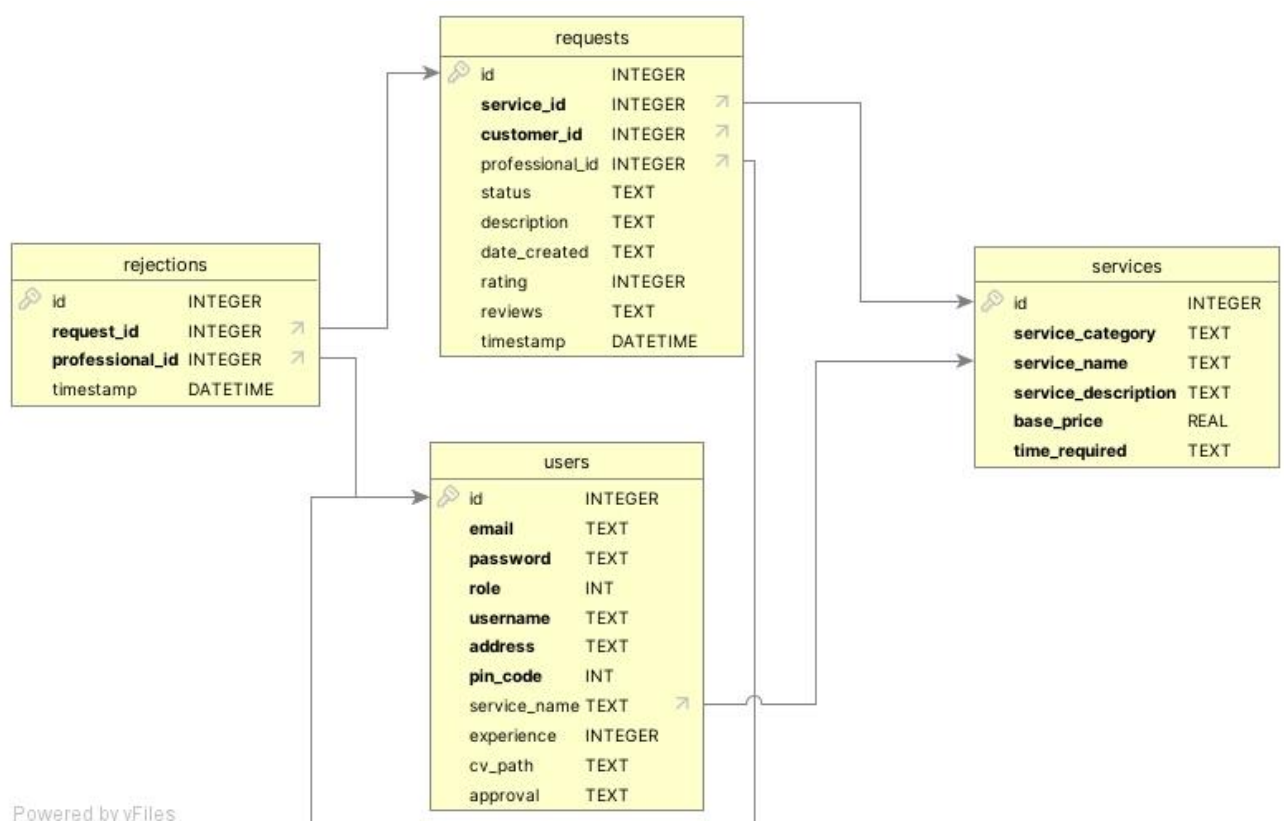
Approach:

The project is implemented using Python Flask framework for backend and SQLite as the database, and HTML/CSS using Bootstrap framework and Jinja 2 templates for creating frontend template pages, along with implementing the CRUD operations. The live sessions helped a lot in this regard, along with the suggestions by the instructors and fellow-mates. The entire flow-through of the project was that I first started with creating the frontend template pages and then moved to backend and database simultaneously.

Technologies Used:

- **Flask:** Lightweight backend web framework used to build web applications.
- **Jinja 2:** Templating engine to create dynamic HTML pages.
- **Flask Login:** Flask extension that provides user session management, including login, logout, and session tracking for Flask applications.
- **SQLite:** Serverless relational database management system to store, manage, and retrieve data in applications.
- **Bootstrap:** Front-end framework used for designing and developing responsive and mobile-first websites.
- **Datetime:** Python library for handling date and time operations.
- **Werkzeug:** Web Server Gateway Interface utility Python library for request/response handling and routing in web applications.

ER Diagram:



Video Link:

<https://drive.google.com/file/d/1lxCc6juaAQeeVBUiYDvvijwihTeNrySY/view?usp=sharing>