

HOUSEHOLD SERVICES PROJECT REPORT

MODERN APPLICATION DEVELOPMENT - I
SEPTEMBER, 2024

STUDENT DETAILS:

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PROJECT DETAILS:

It is a multi-user application that requires an administrator to manage services, professionals, customers and service requests. Professionals may register on the website and choose a service from a list of services. Customers may raise services requests for services like cleaning, electrician, repairing, etc. Professionals may accept the service requests from customers and provide the requested service.

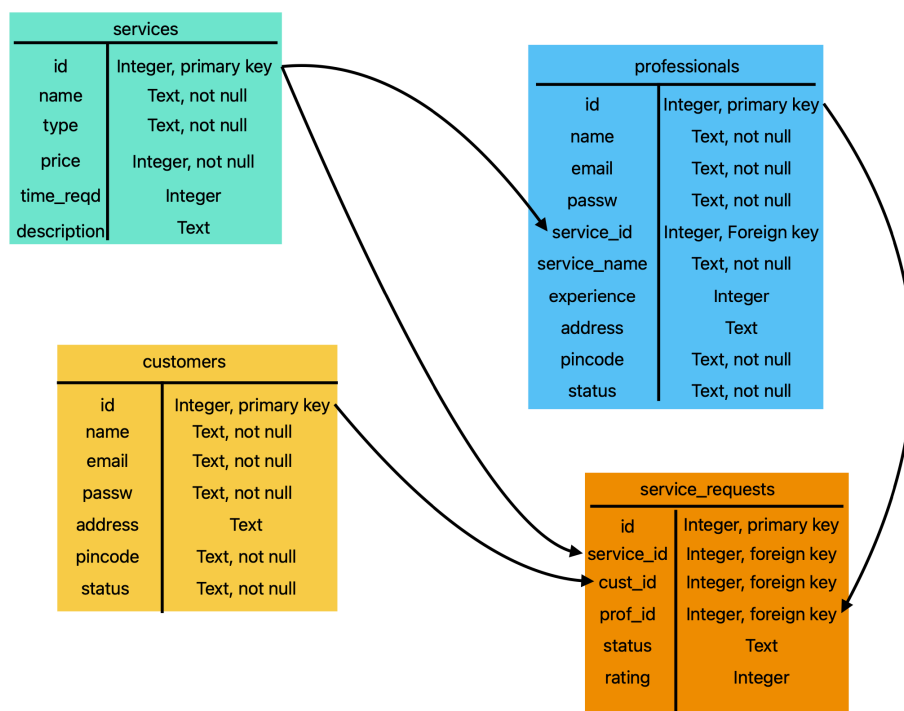
HOW I APPROACHED THE PROBLEM STATEMENT:

I had already learned HTML, CSS, Flask, and SQLAlchemy from the MAD-I course. So, I started by creating the login and registration templates. Next, I set up the database with tables for services, professionals, customers, and service requests. Then, I wrote the code for the backend logic, proper routing, and db models. I faced a few challenges while coding, but overall, I had a great time on this journey.

TECHNOLOGIES USED:

- **Flask:** It is a python based web framework. It is widely used in building web applications and APIs.
- **SQLAlchemy:** SQLAlchemy is a Python library that provides an Object-Relational Mapping (ORM) layer and a SQL toolkit.
- **SQLite:** It is a lightweight relational database management system. SQLite supports SQL standards and is highly reliable.
- **HTML:** HTML(Hyper Text Markup Language) is the standard language used to create and structure web pages.
- **CSS:** CSS (Cascading Style Sheets) is a stylesheet language used to define the visual presentation of HTML elements on a web page.
- **JINJA2:** Jinja2 is a Python-based templating engine commonly used with web frameworks like Flask.
- **DB Browser for SQLite:** It is a free, open-source, and user-friendly tool for managing SQLite databases.

E-R Diagram:



PRESENTATION VIDEO:

- **Link:**
<https://drive.google.com/file/d/1nJcR7OogGM8jV2Oe7j4QNPh2CpTZI4uK/view?usp=sharing>