

Project Report for MAD II (JANUARY 2025) of 21f1004557

Author

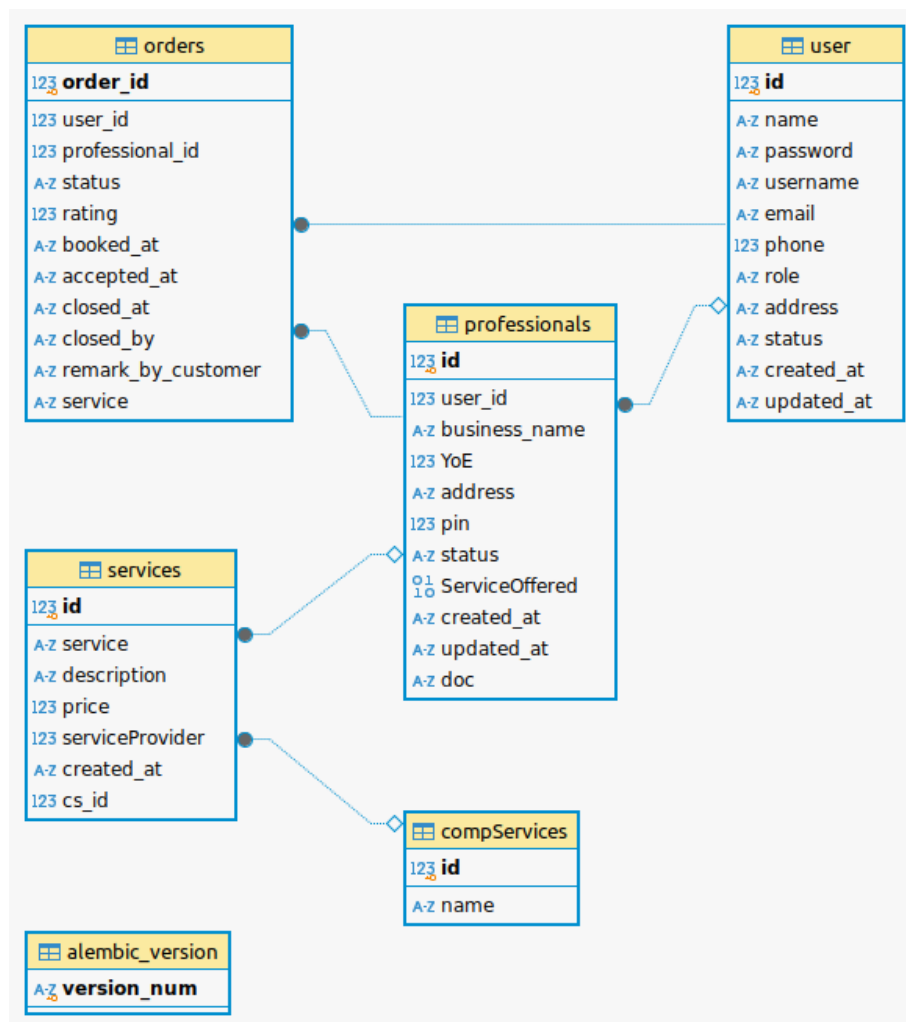
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This project is a web application built with **Flask** web framework and its various extensions namely, **Flask-SQLAlchemy**, **Flask-Login**, **Flask-Admin** and **Flask-Migrate**, **Flask-Mail**. It uses Jinja2 template engine to render dynamic html pages and **SQLite** database to store information. It uses **Vue JavaScript** framework to add reactivity in the project. It also uses **Celery** batch job processor and **Redis** in-memory database to schedule and periodic jobs.

Here is the ER diagram of used Database:



This web application is supposed to provide household services on behalf of the company “A to Z Household Services”. An individual may register as user to avail the available services from the professionals who are offering services on the application. The professionals are users who changed their profile from user to professional by submitting proper documentation which are first reviewed by the admin.

The admin has powers and duty listed below:

- the admin has to review and approve/disapprove the application of a user who wants to become a professional as s/he sees fit. This involves examining of the submitted documentation of the user
- the admin can block or reactivate a user or professional. The blocked entities cannot participate in any transaction
- the admin can add a new service available for professionals to offer or delete an existing one so that no professional can offer it
- the admin has access to all the database with power to edit the entries of required fields

The user has a dedicated “Dashboard” where s/he is able to see all his past and current orders and their status as “requested” “accepted” or “closed”. An order’s status assigned the value “requested” when the user requests a particular service from a particular professional. The professional has the liberty to accept or reject the service request from the user. If the professional accepts the service the status of the order updated to “accepted”. Once the the order’s status updated to “accepted” the user can ‘close’ the order as s/he sees fit by closing it. When an order is closed it status becomes “closed” and it is understood to has been completed by all the parties.

On the dashboard the user has a dedicated search field to find a service that is currently being offered by the company and the professional(s). The search result appears in descending order of professionals overall rating which are given by the users at the time of closing of an order along with a remark.

Similarly each professional has a dedicated “Dashboard” where s/he is able to see all his past and current orders and their status as “requested” “accepted” or “closed”. On this dashboard the professional is also able to see and update the services he is currently offering.

All users (hence professionals) are able to change their personal details on their profile page. The Professionals who have not visited their requested orders will get periodic reminder via email and similarly the customers, too, will get monthly reports.

Video link: https://drive.google.com/file/d/11TN_-vROyjdVqr8epJ9p_OuQZBo5IPTJ/view?usp=sharing