Houc

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Description

Houc is a complete platform connecting customers with service professionals. It allows customers to search and book a variety of services.

Presentation Link:
https://drive.google.com/file/d/1K6HNS3YjYlC9n0PsTlqmDrvxJbpXz9XU/view?usp=sharing

Technologies Used

- ### Backend

1. Flask (API)
2. SQLite (Database)
3. SQL Alchemy (ORM)
4. Redis (Caching, Queue Broker)
5. Celery (Queue)

- ### Frontend

1. VueJS
2. CSS

- ### Security

1. JWT tokens

Architecture and Approach

The project follows MVC architecture, each **API** function has been spread between two files: controller and a service file.

The route reaches to the controller through REST endpoint, where it is checked for authentication tokens, if no authentication token is found, then request returns **401** error.

A service professional can only work after it has been approved.

Different login pages have been provided for different kind of users. The app categorizes users into 3 groups: **Customer, Service Professional, Admin.**

There is also an admin panel, from where admin can monitor all the users of the app, it also provides various charts for better understanding of statistics. The admin can also block and unblock entities.

All API have been categorized into three types. Each category has its separate controller and service files. Flask's built-in blueprint method has been used to integrate each of these controllers.

The controllers along with their routes are listed below

- Admin Controller ("/manage")
- User Controller ("/user")
- General Controller ("/general)

Database

The project makes use of an SQLite database known as household.db which is in the database folder in python directory of the project.

It consists of 8 tables. Database diagram is attached below.