Project Report:

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Project Details:

It is a multi-user app(requires one admin and other service Professional/customers)which acts as platform for providing comprehensive home

Technologies used

1. Flask: for request handling, rendering templates, defining views/routes to the application
2. Flask Sqlalchemy: defining models, doing query operations on the database, committing changes to the database.
3. Jinja: for templating, provides more flexibility to the html document.
4. Sqlite: for database tables
5.javascript:for graphs.

DB Schema Design

All the classes have an id field as the primary key.

1. User class

a. u id: user id, integer, primary key
b. username: string, unique, cannot have null value
c. password: string, cannot have null value
d. isadmin:boolean, cannot have null value
e. isprofressional:boolean, cannot have null value
f. iscoustomerctive:boolean, cannot have null value
g. isblocklisted:Boolean,cannot have null value

2. Service class

a. sid: integer, primary key
b. name: string, unique, cannot have null value
c. price: integer, cannot have null value
d. timerequired: integer ,cannot have null value
e. description : string, cannot have null value.

3.Customer class

a. cid: integer, primary key
b. username: string, unique, cannot have null value
c. password: string, cannot have null value
d. fullname: string, cannot have null value
e. phone: integer, cannot have null value
f. address: string, cannot have null value
g. pincode: integer, cannot have null value

4.Proffesional class

a. pid: integer, primary key
b. username: string, unique, cannot have null value

c. password: string, cannot have null value
d. fullname: string, cannot have null value
e. sev_name : string, cannot have null value
f. specality : string, cannot have null value
g. Experience: integer, cannot have null
h. phone: integer, cannot have null value
i. address: string, cannot have null value
j. pincode: integer, cannot have null value
k. rating: integer, cannot have null value

5.ServiceRequest class

a. srid: integer, primary key
b. service_id: foreign key is sid (Service id in the Service table)
c. customer_id: foreign key is cid (Customer id in the Customer table)
d. Profressional_id:foreign key is pid(Professional id in Professional table
e. dateofrequest: date, cannot have null values
f. dateofcomplete: date, can have null values
g. rating : integer ,cannot have null values
h. remarks : string, can have null values

Architecture and Features

Architecture
Following the recommended flask app structure.
1. The “backend.py” containing the database schema related definitions is divided into a separate module from the “app1.py” which contains all the views.
2. Templates folder is used to serve the html files.
3. The “Instance” folder has the database defined.
5. myenv contains the required python libraries used to build the application.

Features:

Admin:

- Admin can login
- Can approve professional
- Add/Edit services
- Block/unblock customer/professional

Customer:

- Register and Login
- Can book service
- Give rating and remarks to that Professional

Professional:

- Register and Login
- Can accept/reject the service
- He/she can accept multiple services

Project video:https://drive.google.com/file/d/154zZexT12Vs4bvWNoQqfGwwqK_PjO8rE/view?usp=drive_link