Household Services - MAD | Sept 2024

Mise à jour automatique effectuée toutes les 5 minutes

Modern Application Development I

Project Statement

It is a multi-user app (requires one admin and other

Household Services Application

providing comprehensive home servicing and solutions. Frameworks to be used

service professionals/ customers) which acts as platform for

These are the mandatory frameworks on which the project has to be built.

Flask for application code Jinja2 templates + Bootstrap for HTML generation and styling

- SQLite for data storage
- **Note:** All demos should be possible on your local machine.
- The platform will have three roles;

1. Admin - root access - it is a superuser of the app and

Roles

Admin login redirects to the admin dashboard

requires no registration.

- Admin will monitor all the users (customers/service professionals) Admin will create a new service with a base price
 - Admin will approve a service professional after verification of profile docs
 - Admin will block customer/service professionals based on fraudulent activity/poor reviews
- Other operations* 2. Service Professional - An individual that provides the
 - Login/Register Service professionals will accept/reject a request
 - Name Date created

Each professional may have:

- Description
- service type
- One professional is good at one of the services only He/she can accept/reject an assigned service request

is closed by the customer

- Professional profiles are visible based on customer
- 3. Customer an individual who has to book a service request
 - Login/Register View/Search the service by the name/location pin
- Others
- **Service** It refers to the type of service that the customer is

Terminologies

is it required etc.

3. Price 4. Time required 5. Description etc.

providing the type of service the customers is looking for, when

Service Request - A customer creates a service request

- A service request may contain the following attributes: 1. id - primary key service_id(foreign key-services table)
 - 6. date_of_completion 7. service_status(requested/assigned/closed) 8. remarks (if any) etc.
- **Application Wireframe**
- **A-Z Household Services Note:** The wireframe is provided only to get the flow of the

work on their front-end ideas.

 A login/register form with fields like username, password etc. for customer, service professional and admin login You can create separate forms for each type of user You can either use a proper login framework, or just use

fraudulent activity/poor reviews 3. Service Management - for the Admin

Admin will approve a service professional after

Admin login redirects to admin dashboard

 Create a new service request based on the services available completion status, remarks etc

Delete an existing service

4. Service Request - for the customers

5. Search for available services

customers

the components)

your app.

Optional Functionalities

The admin should be able to search for a professional to block/unblock/review them. 6. Take action on a particular service request - for the service

The customers should be able to search for available services based on their location, name, pin code etc.

Recommended Functionalities

API resources created to interact with the users, service requests and/or services. (Please note: you can choose which API resources to create from the given ones, It is NOT mandatory to create API resources for CRUD of all

External APIs/libraries for creating charts, e.g. ChartJS Implementing frontend validation on all the form fields using HTML5 form validation or JavaScript Implementing backend validation within the controllers of

APIs can either be created by returning JSON from a controller or using flask extension like flask restful

Implement a dummy payment portal (just a view taking payment details from sponsors for an ad request) Any additional feature you feel is appropriate for the application

unauthorized access to the app using flask extensions

• Incorporate a proper login system to prevent

like flask login, flask security etc.

Student have to create and submit a project report (not more than 2 pages) on the portal along with the actual project submission The report must include the following things;

o Frameworks and libraries used

tables and their relations API resource endpoints (if any)

 Project details, including the question statement and how you approached the problem statement

ER diagram of your database, including all the

Project Root Folder Code

Folder 1

- file5.py file6.py file1.py file2.py All code to be submitted on portal in a single zip file (zipping instructions are given in project document -Project Doc T22024 Students have to create a brief (5-10 minute) video explaining how you approached the problem, what you have implemented, and any extra features The video must be uploaded on the student drive with access to anyone with link and the link must be included in the report • This will be viewed during or before the viva, so should be a clear explanation of your work Viva: after the video explanation, you are required to give
- Instructions
 - This is a live document and will be updated with more
 - details (wireframe) We will freeze the problem statement on or before 19th Sept 2024, beyond which any modifications to the statement will be communicated via proper

• The project has to be submitted as a single zip file.

announcements.

service

 Experience etc.

reviews The professional will exit the location after the service

- Open/close a service request He/she can post reviews/remarks on the closed service
- Each service may have; 1. ID 2. Name

looking for e.g. AC servicing, plumbing etc.

- customer_id(foreign key-customer table) 4. professional_id(foreign key-professional table) 5. date_of_request
- Note: the above fields are not exhaustive, students can add more fields a/c to their requirements
- application and what should appear when a specific user navigates from one page to another. It is NOT mandatory to exactly replicate the views given in the wireframe. Students can

Core Functionalities

1 Admin login and user login

2. Admin Dashboard - for the Admin

verification of profile docs

professional)

a simple HTML form with username and password (we are not concerned with how secure the login or the app The app must have a suitable model to store and differentiate all the types of user of the app.

Admin will manage all the users (customers/service

Admin will block customer/service professional based on

- Create a new service with a base price. Update an existing service - e.g. name, price, time required and/or other fields
- Edit an existing service request e.g. date of request, Close an existing service request.
- professional

Ability to view all the service requests from all the

 Ability to accept/reject a particular service request Ability to close the service request once completed*

 Provide styling and aesthetics to your application by creating a beautiful and responsive frontend using

simple CSS or Bootstrap

Student details

- **Evaluation**
 - Drive link of the presentation video The project report must be included as a PDF inside the root submission folder and NOT along with it.
 - Folder 2 - Folder 3 file7.py

file3.py file4.py

- file8.py

Project Report.pdf a demo of your work, and answer any questions that the examiner asks This includes making changes as requested and running the code for a live demo • Other questions that may be unrelated to the

project itself but are relevant for the course