Household Services - MAD | Sept 2024

5 minutes

Mise à jour automatique effectuée toutes les

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

providing comprehensive home servicing and solutions. Frameworks to be used

service professionals/ customers) which acts as platform for

### 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.

Roles

Admin login redirects to the admin dashboard

- Admin will monitor all the users (customers/service professionals)
- Other operations\* 2. Service Professional - An individual that provides the
  - service Login/Register
- Date created
  - Description service\_type

request

reviews

is closed by the customer

Login/Register View/Search the service by the name/location pin

3. Customer - an individual who has to book a service

- He/she can post reviews/remarks on the closed
- Others

**Service** - It refers to the type of service that the customer is

- Each service may have; 1. ID 2. Name
  - 5. Description etc.
- **Service Request** A customer creates a service request providing the type of service the customers is looking for, when is it required etc.

**Terminologies** 

1. id - primary key 2. service id(foreign key-services table)

5. date\_of\_request 6. date\_of\_completion

Application Wireframe

A-Z Household Services

- service\_status(requested/assigned/closed) 8. remarks (if any) etc. **Note:** the above fields are not exhaustive, students can add
- more fields a/c to their requirements

3. customer id(foreign key-customer table)

professional\_id(foreign key-professional table)

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

**Note:** The wireframe is provided only to get the flow of the

### Core Functionalities 1 Admin login and user login

admin login

You can create separate forms for each type of user You can either use a proper login framework, or just use a simple HTML form with username and password (we are not concerned with how secure the login or the app

password etc. for customer, service professional and

A login/register form with fields like username,

Admin will manage all the users (customers/service professional) Admin will approve a service professional after verification of profile docs Admin will block customer/service professional based on fraudulent activity/poor reviews

Admin login redirects to admin dashboard

completion status, remarks etc Close an existing service request. 5. Search for available services

customers

of your app.

to block/unblock/review them. 6. Take action on a particular service request - for the service professional

The customers should be able to search for available

Ability to close the service request once completed\*

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

Implementing backend validation within the controllers

Ability to accept/reject a particular service request

the components) APIs can either be created by returning JSON from a controller or using flask extension like flask\_restful External APIs/libraries for creating charts, e.g. ChartJS Implementing frontend validation on all the form fields

using HTML5 form validation or JavaScript

simple CSS or Bootstrap Incorporate a proper login system to prevent unauthorized access to the app using flask extensions like flask login, flask security etc.

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

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

**Evaluation** Student have to create and submit a project report (not

The report must include the following things;

API resource endpoints (if any)

Project Root Folder

more than 2 pages) on the portal along with the actual

Project details, including the question statement

and how you approached the problem statement Frameworks and libraries used o ER diagram of your database, including all the tables and their relations

project submission

Student details

- Code Folder 1 file3.py
- file8.py file5.py file6.pv file1.py file2.py Project Report.pdf 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
- project itself but are relevant for the course Instructions

running the code for a live demo

that the examiner asks

- This is a live document and will be updated with more details (wireframe)
- Sept 2024, beyond which any modifications to the statement will be communicated via proper announcements.

# Household Services Application

These are the mandatory frameworks on which the project has

The platform will have **three** roles; Admin - root access - it is a superuser of the app and requires no registration.

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

Service professionals will accept/reject a request Each professional may have; Name

 Experience etc. One professional is good at one of the services only He/she can accept/reject an assigned service request Professional profiles are visible based on customer

The professional will exit the location after the service

- code Open/close a service request service
- 3. Price 4. Time required
- A service request may contain the following attributes:

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

can work on their front-end ideas.

#### The app must have a suitable model to store and differentiate all the types of user of the app.

2. Admin Dashboard - for the Admin

3. Service Management - for the Admin Create a new service with a base price.

Update an existing service - e.g. name, price,

Create a new service request based on the services available Edit an existing service request - e.g. date\_of\_request,

time required and/or other fields

Delete an existing service

Service Request - for the customers

- services based on their location, name, pin code etc. The admin should be able to search for a professional
- Recommended Functionalities

Ability to view all the service requests from all the

- **Optional Functionalities** 
  - application

#### 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.

- file4.pv Folder 2 - Folder 3 - file7.py
- 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 a demo of your work, and answer any questions

This includes making changes as requested and

Other questions that may be unrelated to the

- We will freeze the problem statement on or before 19th
- The project has to be submitted as a single zip file.

- **Project Statement**
- Modern Application Development I