A project report on

MediHome (Online Medical Consultation)

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
KNOWLEDGE PARK, BANGALORE

UNDER THE SUPERVISION OF
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PG DIPLOMA IN ADVANCED COMPUTING
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Project Flow

1. **Home Screen**

    a. User can select their preferred location from the given drop down.

    b. If selected location has some doctors, then user will be redirected to consultation page else display message "Selected Location will be available soon".

2. **Consultation**

    a. Consultation page have two options: Speciality and Symptoms

    b. If user is sure about their disease type then they can directly select that Speciality and proceed to Consult-Doctor page.

    c. Else user can select multiple Symptoms and proceed to Symptoms page.

3. **Symptoms**

    a. Selected symptoms from the consultation page, will be displayed inside text area.

    b. Now user will click on the button to get their related Speciality which will be displayed on the card.

    c. After clicking on the card, user will proceed to Consult-Doctor page.

4. **Consult-Doctor**

    a. This page will display the list of doctors based on the selected Location and Speciality.

    b. User can choose a doctor from the given list and book an appointment for the same.

5. **Booking**

    a. User need to choose an appointment date within next seven days otherwise message will displayed as "Please select Date interval from tomorrow up-to 7 days".

    b. Click on "Proceed To Pay" button that will redirect to Payment page.

6. **Payment**

    a. In this page, user need to fill their personal as well as card details.

    b. User's personal details will get inserted into the database.

    c. Click on "Confirm Payment" button that will redirect to Pay-Receipt page

7. **Pay-Receipt**

    a. This page will display that appointment is booked with the selected Doctor on the selected Date.

    b. And give Doctor's Contact Number to the user to interact.

    c. Return to Home Page.

8. **About Us**

    a. This page tells the objective of this website.

    b. And details of our Team Member.

Working Scenario

1. **Presentation Layer**

   a. In Consultation Page, multiple Speciality (radio button type) are displayed, user can select any one of them and click on "Proceed" button.

   b. By clicking "Proceed" button, "gotoConsultDoctor() function of Consultation.component.ts file will be called.

   c. In "gotoConsultDoctor" function it extracts list of doctors by calling "doctorPostCall()" function of medihome.service.ts file.

   d. Then InputDoctor model will be passed to the 'doctorPostCall' function.

   e. In medihome.service.ts file "doctorPostCall()" function will call "getDoct()" function of service layer via get-mapping through query string(doctor).

2. **Service Layer**

   a. In "getDoct()" function of controller, we are reading parameter of type InputDoctor and calling getDoctors function of DAO layer by passing received parameter.

3. **DAO Layer**

   a. getDoctors() function of DAO will do select operation based on received Location and Speciality as parameter and return list of doctors

   b. The record fetched from the database will set to object of OutClass,

4. The object of OutClass will be returned to the Presentation Layer

5. In presentation layer list of doctors will be displayed.

Some scenarios where we got stuck and how did we overcome

1. In frontend:

1.1. In Consult-Doctor page, while receiving data(Speciality and Location) coming from Consultation page or Symptoms page via compTalkService, there was an ambiguity problem while receiving data.

Solution:

In order to avoid ambiguity, we used another variable named "num" of number type, to distinguish between data whether it is coming from consultation page or symptoms page.

1.2. In consultation page we are facing problem while displaying multiple checkboxes, by using ngFor, for each item it was taking new line.

Solution:

In order to overcome above problem:

a. We used "slice" pipe, which makes us to display required number of items in each line.

b. And "inline" element, to display group of items in one line, which helps in making UI more readable.

2. In Backend:

2.1. While taking an appointment for the doctor we wanted the appointment date should lie from tomorrow till next seven days.

Solution:

- For the same we wrote below SQL query to fulfil our requirement.

"select Name from location where (? > curdate()) and (? < ADDDATE(curdate(), INTERVAL 7 DAY))"

<u>Learning during the Project</u>

1. We learned to develop Full Stack application and learned how Presentation layer interacts with the Service layer.

2. We have learned how to use component talking, routing between two components

3. We have learned how to deploy static angular file on remote using Heroku.

4. We have learned to validate accepted date should lie within the given period.

5. We have learned how to deal with each other in a team and work collaboratively.

6. We have learned to use the available online resources efficiently.