Annexure - III

Health Connect

Synopsis

Submitted
for the approval of Second year Mini Project
in

Department of Computer Science & Engineering

Submitted To:

Ms.Vaishali Bhargava
Assistant Professor
Department of Computer Science & Engineering

Submitted By:

Sahil Mallick 2201430100218

Sahil Gupta 2201430100217

M.Shaheem 2201430100154

Durgesh Kr Rai 2201430100098

Monti Rana 2201430100158

IMS Engineering College,
Ghaziabad

Mini Project Title: Health Connect

Mini Project Description or Problem Definition :

Welcome to our health portal! Easily find doctors and hospitals tailored to your health needs. Input your condition, location, and preferences to discover personalized recommendations, ensuring you receive the care that suits you best. Streamline your healthcare journey with our user-friendly platform.
Health Connect is a comprehensive platform designed to assist users in finding suitable doctors and hospitals based on their specific health conditions.
The platform aims to streamline the process of scheduling appointments with nearby hospitals , with the best doctors available in your area providing a seamless healthcare experience.

Key Features:

- Efficient Matchmaking: Match users with specialized doctors and hospitals relevant to their illness or health concern.
- User-Friendly Interface: Develop an intuitive interface for easy navigation, ensuring accessibility for users of all ages.
- Appointment Scheduling: Enable users to book appointments with healthcare providers directly through the platform.
- Location-Based Services: Utilize geolocation to display nearby hospitals and clinics, facilitating quick access to healthcare facilities.

Aim:

To create comprehensive platform designed to assist users in finding suitable doctors and hospitals based on their specific health conditions., to streamline the process of scheduling appointments with nearby hospitals with the best doctors available in your area providing a seamless healthcare experience.

Literature Survey:

This paper focuses on an android application called Mr.Doc which acts as the client whereas the database containing the doctor's details, patient's details and appointment details is maintained by a website that acts as a server.The objective here is to provide ease and comfort to patients while taking appointments from doctors The proposed work in this paper is an Online Hospital Management Application that uses an android platform that makes the task of making an appointment from the doctor easy and reliable for the users. Android based online doctor appointment application "Mr. Doc" contains two modules. One module is the application designed for the patient that contains a login screen. The patient has to register himself before logging in to the application. After logging in, the patient can select a hospital and can view the hospital details. [1].

This project focuses on a web based application, in which the admin allows registration and login for both doctors and patients.The system is divided into 3 parts, 1.Patient Registration System , 2.Doctor, 3.DocSys Administration
With this application the effort to both doctors and patients will be reduced. Also the doctor can schedule his own time based on the appointments booked. The key objective of this consultation paper is to elicit feedback from the public and concerned stakeholders on the functional and technical design of UHI, to ensure that UHI caters to the diverse needs of healthcare ecosystem players. UHI aims at streamlining the digital health service experience for the providers of health service and the patient by establishing and standardizing the technology pathways that enable such services to be given [2].

Here a system has been developed to improve upon the efficiency and quality of delivering a web based appointment system to reduce waiting time. In this paper, a patient appointment and scheduling system is designed using AngularJS for the frontend, Ajax framework for handling client-server requests and Sqlite3 and MYSQL for the backend. Lavoie James Lavoie, Eduardo Simoes) Health care is changing with a new emphasis on patient-centeredness. Fundamental to this transformation is the increasing recognition of patients' role in health care delivery and design. Medical appointment scheduling, as the starting point of most non-urgent health care services, is undergoing major developments to support active involvement of patients. By using the Internet as a medium, patients are given more freedom in decision making about their preferences for appointments and have improved access [3].

Methodology/ Planning of work :

Define Requirements:
Identify the key features such as search functionality, filters for health conditions, methodologies, location-based search, and user reviews.

Domain and Hosting:
Choose a domain name that reflects the purpose of your website. Select a reliable hosting provider to ensure your website is accessible.

Platform and Technology:
Decide on the technology stack (e.g., HTML, CSS, JavaScript, backend language like Python or Node.js). Consider using a framework for efficiency.

Database Design:
Design a database to store information about doctors, hospitals, health conditions, methodologies, and user reviews.

User Authentication:
Implement a secure user authentication system to manage user accounts, allowing them to save preferences and review doctors.

Search Functionality:
Develop a robust search algorithm that considers health conditions, methodologies, and location to provide relevant results.

User Interface:
Design an intuitive and user-friendly interface. Ensure easy navigation and accessibility for users of all backgrounds.

Doctor/Hospital Profiles:
Create detailed profiles for each doctor and hospital, including specialties, methodologies, user reviews, and contact information.

Filters and Sorting:
Implement filters and sorting options to help users refine their search results based on various criteria.

Appointment Booking:
Integrate a secure appointment booking system, allowing users to schedule appointments with doctors or hospitals directly through the website.

Testing:
Thoroughly test your website for usability, performance, and security before launch.

Feedback Mechanism:
Include a feedback mechanism for users to report issues, provide suggestions, or share their experiences.

Gantt Chart (include into Methodology / Planning Section):

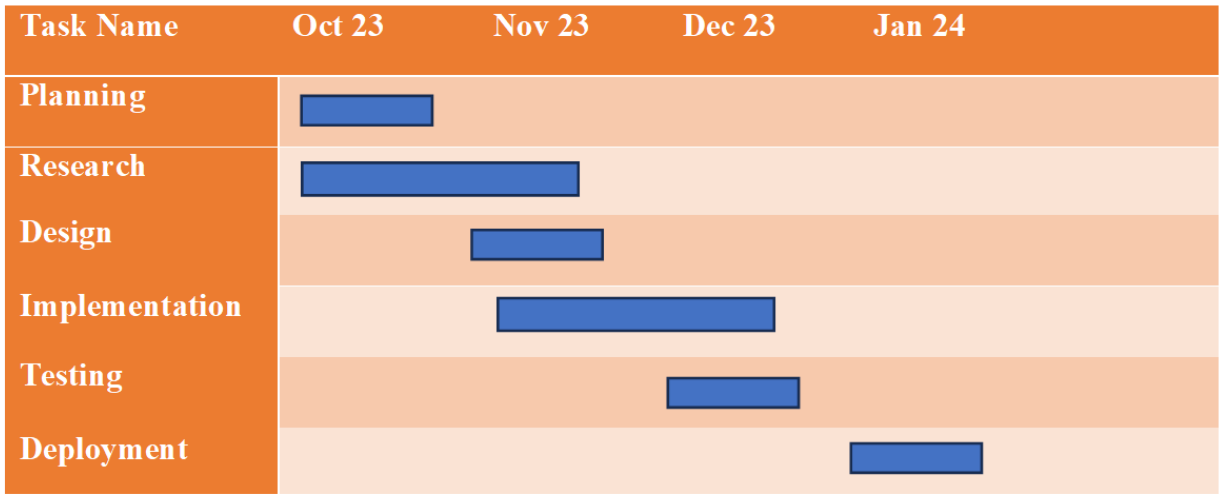

Fig.1

Server Side: (change the following as per your Mini Project)

- Web Server : IIS Server7.0.
- Database server : SQL server 2005.
- Visual Studio 2008(.Net Framework 3.5).
- Operating System : Window XP sp2.
- Processor: Dual Core 1.6 GHz.
- 1GB RAM .

Client Side:

- A reliable internet connection. ADSL / Broadband connections are recommended.
- Operating System : Window XP sp2.
- Processor: Dual Core 1.6 GHz.
- 256MB RAM.
- Microsoft Office 2007.
- Web Browser : Mozilla Firefox 4.2
- Adobe Acrobat file reader 9.0
- Flash player 10.02.

Innovativeness & Usefulness:

AI-driven Matching: Use artificial intelligence to match users with healthcare providers based on their health conditions, preferences, and historical success rates.

Telemedicine Integration: Facilitate virtual consultations with doctors, enhancing accessibility and convenience for users.

Health Record Management: Allow users to securely store and share their health records with chosen healthcare providers, streamlining the consultation process.

Real-time Availability: Provide real-time information on doctor availability and appointment scheduling, reducing wait times.

Patient Community: Create a platform for users to share their experiences, ask questions, and support each other.

Usefulness:

To make it more useful than existing software, consider implementing features like:

Advanced Search Filters: Allow users to filter doctors and hospitals based on specialties, expertise, location, reviews, and accepted insurances.

Personalized Recommendations: Utilize user profiles and preferences to provide personalized recommendations for healthcare providers.

Telemedicine Integration: Include options for telemedicine appointments, making healthcare more accessible and convenient.

User Reviews and Ratings: Implement a robust review system where users can share their experiences and provide ratings for doctors and hospitals.

Appointment Scheduling: Enable users to schedule appointments online, streamlining the process and reducing wait times.

Health Condition Information: Provide educational content about various health conditions to empower users with information.

Notification System: Implement reminders for upcoming appointments, follow-ups, and health check-ups.

Prioritize user experience, security, and reliability throughout the development process to make your website stand out and be more useful than existing platforms.

Current Status of Development :

1.Conceptualization and planning

2.User Experience Design

3.Technology development

4.Continuous Improvement

5.Testing and Feedback

6.Researching

Market Potential & Competitive advantage:

Typically a healthcare website provides information about the business and its services. It can also provide features like appointment scheduling, access to medical records, and other material. This kind of website can help businesses establish their credibility and communicate with patients. It has. the resources and information to help patients and other users.

Reference Research Paper:

[1]. Malik, Shafaq & Bibi, Nargis & Khan, Sehrish & Sultana, Razia & Rauf, Sadaf.(2016). Mr. Doc: A Doctor Appointment Application System. International Journal of Computer Science and Information Security,.14. 452-460.

[2]. Sonal G. Shelwante , Anshuli Thakare, Karishma Sakharkar , Akshta Birelliwar , Karuna Borkar," Smart Health Doctor Appointment System",IJRESM, Volume-2,issue-2, February-2019. ISSN 2277-8616

[3]. N. V. Chaudhari, Akshay Phadnis , Prajakta Dhomane , Jayshree Nimje , Akansha Sharma.(2017). Android Application for Healthcare Appointment Booking System. Imperial Journal of Interdisciplinary Research (IJIR),Vol-3, Issue-3, ISSN: 2454-1362.

Contact details of Team Members

S. No.	Name	Contact No	Email ID	Father's contact detail
1	Sahil Mallick	6009158485	a2022cse8941@imsec.ac.in	9436604897
2	Sahil Gupta	6009538543	a2022cse8940@imsec.ac.in	9436062358
3	Durgesh Kumar Rai	8794713340	a2022cse8939@imsec.ac.in	9856309485
4	Mohd. Shameem	9198443992	a2022cse8941@imsec.ac.in	9833998850
5	Monti Rana	9548365015	a2022cse8835@imsec.ac.in	9027282162

Mini Project Guide Detail:

S. No.	Guide Name	Email Id	Contact Number
1	Vaishali Bhargava	vaishali.bargava@imsec.ac.in	9897864484

Signature of Mini Project Guide with date: