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Health Assistance Application

Sanjana Gadikar

Acropolis Institute of Technology and Research, Mangliya, Indore

ABSTRACT :

The Internet plays a crucial role in modern life, significantly enhancing quality of life and raising living standards across various sectors. One such sector benefiting from digital transformation is healthcare, with online health assistance applications providing convenient access to essential health services. Traditional healthcare facilities are often limited by location, operational hours, and capacity constraints, which may impede access to necessary health resources. This limitation has led to the growth of digital health services, making healthcare more accessible and efficient for users. Through this application, users can access functionalities such as booking hospital beds, ordering medications, comparing healthcare costs, finding doctors, reviewing health records, and checking test reports.

INDEX TERMS : Health Assistance Application, Online consultation, Healthcare

I. INTRODUCTION :

In today's era of advanced digital solutions, the healthcare industry has witnessed substantial innovation, with numerous online platforms improving accessibility and convenience for users. Our Health Assistance Application is a notable example, combining essential healthcare services within a single, user-friendly digital platform.

Using the health assistance application offers numerous benefits. Users can conveniently book hospital beds, find doctors, access health records, and order medications—all from the comfort of their homes with just a web browser and an internet connection. This solution saves users significant time and effort in managing healthcare needs.

Developing a health-focused e-commerce website requires several prerequisites, including an understanding of multi-tiered architecture, client-server scripting, and familiarity with technologies like Java, JavaScript, HTML, and database management with MySQL. Our project employs these technologies, with Java as the primary programming language and MySQL for database management.

The objective of our project is to create a basic e-commerce-style platform dedicated to healthcare services. Users can search for and access healthcare services like bed booking, test reports, and medicine orders, with flexible payment options like card transactions and cash on delivery, enhancing user convenience and accessibility.

The digital revolution has reshaped the way we access healthcare, pushing traditional services to adapt and expand online. This shift allows individuals to efficiently manage health services, with options that previously required in-person visits.

This research paper aims to offer a comprehensive analysis of the online health assistance industry and its transformative impact on healthcare access and management. In this paper, we will examine various aspects of the industry, its growth, and its implications for the future of healthcare services.

II. LITERATURE REVIEW :

Health assistance applications are designed to respond to user inquiries regarding various healthcare services. These online systems address user queries related to healthcare providers, availability of beds, medical test reports, medication orders, and more by accessing data from a centralized database. Enhanced user satisfaction is achieved by minimizing form-filling requirements and enabling health representatives to retrieve patient data and recommend health services quickly. Representatives can also check medicine stock levels, providing users with real-time updates and making the healthcare experience more efficient and informative.

E-service quality has become a constantly evolving objective due to competitive pressures and the ease of replicating digital service features. Burt and Sparks (2003) suggest that the integration of the internet in business has created new service models, heightening competition for traditional healthcare facilities, much like in other industries (Dholakia and Uusitalo, 2002).

In the context of online health service access, some experts argue that multi-channel service delivery will dominate the future of healthcare transactions (Dennis et al., 2002). Rather than competing against digital platforms, healthcare providers are encouraged to adopt a "bricks and clicks" approach, integrating online and offline strategies. This approach helps overcome challenges in transitioning to an online environment by creating a hybrid service model that merges physical and digital healthcare services. Some healthcare providers have found success by partnering with established online health networks to support their digital growth.

The flexibility and adaptability of online health assistance applications have turned accessing healthcare into a faster, more convenient experience. Research indicates that online health services are particularly popular among young, educated, and tech-savvy individuals, as seen in the broader digital health landscape (Mellahi & Johnson, 2000). For instance, a survey of several healthcare organizations revealed that digital health services remain underutilized by some institutions, yet adoption rates are steadily increasing as the benefits of digital healthcare become more widely recognized.

III. BACKGROUND

SYSTEM DESIGN AND IMPLEMENTATION:
- JAVA language is used for the design andimplementation of the webpage of the project.
- MYSQL is used for creating the data base of thesystem.
- Eclipse is used for client-server communication.

SYSTEM DESIGN:

A. A Home page:

This is the initial page displayed after user logging in successfully. It will display the doctor with name andimage which are available in the store and it has four options Login, Register, Appointment Services.

B. Admin :

Admin selects a specific provider's name, a detailed view displays the provider's profile along with an image, allowing the admin to review essential details such as qualifications, specialty, and availability. Admins can also manage service options, including scheduling appointments, updating availability, or adding providers to specific categories for users to access efficiently.

C. Doctor:

In this section user can see the all doctor available .

D. contact:

It has three options Name, Email, Text area. Name shouldbe filled with the customer name with second name and in email section user has to give their email to get order successful message and the text area is where the customers can enquire about the details of the book to bedelivered.

E. User :

Users can search for healthcare providers, book hospital beds, order medications, view medical test reports, and access personal health records. They can review provider details, add services to a cart, and complete payments securely online, making healthcare management accessible and convenient from one platform.

F. Rating:

The customers are allowed to give rating based on his or her previous history. They can rate it bygiving five for very good, four for really good, three for good, two for normal and one for low.

G. Admin Login:

The Admin Login has the special functions like
- Adding new doctor.
- Deleting the doctor which are not available.
- Check Appointment
- Regulate work of user.

SYSTEM INTERFACE DESIGN:
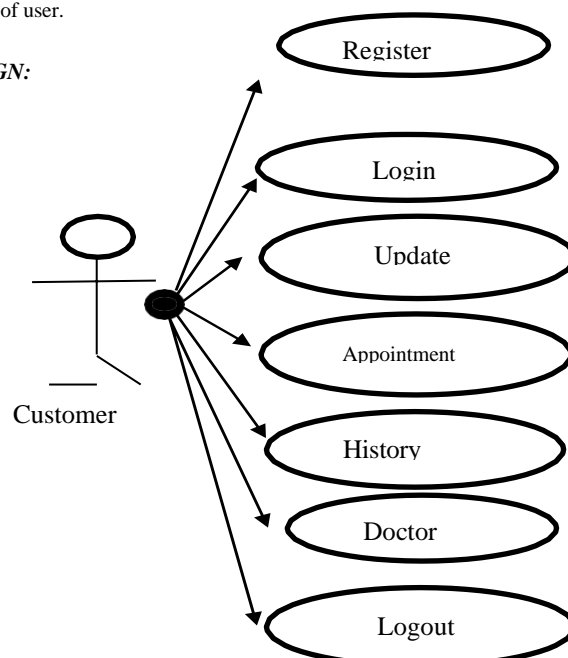
A. Register:
- Use: When the user does not have an account then the user will be able to create one.
- Actor: Customer
- Input: Customer must insert details in the registration form.

That includes
1. User name
2. Password
3. Conform password
4. First name
5. Last name
6. Email address
7. Address
8. Telephone
9. Information of payment card

B. Login:

- Use: If the customer wants to use any of the functionalities of the Health Assis, he must login with his username and password.
- Actor: Customer.
- Input: User name and password**.**
- Output: if the username and password are correct then he is redirected to home page else prompted to re-enter the user details.

C. Update profile:

- Use: If the user wants to update their account information, they can update their chosen fields and modify all the data in the database with an updated question.
- Actor: customer
- Input: Users update their account details.
- Output: The program updates the details entered in the database using an update method.

D. Department

- Use: If the customer wishes to see different domain of doctor, they can consult by clicking the domain button.
- Actor: Customer.
- Input: The customer must press the domain button to interact.
- Output: The domain will be added to your profile.

E. View History

- Use: When the customer wants to see the history
  he has previously booed appointment, he / she will then press the button at the top of the profile.
- Actor: customer
- Input: At the top of the page the user clicks on the history button.
- Output: Customer will able to see history.

F. Logout
- Use: When the user wants to end the session and to sign out of the website, he may use the logout method.
- Actor: Customer
- Input: Consumer presses the button to logout.
- Output: The account session of the customer expires .

1.3 .ADMINISTRATOR DESIGN:

fig.2
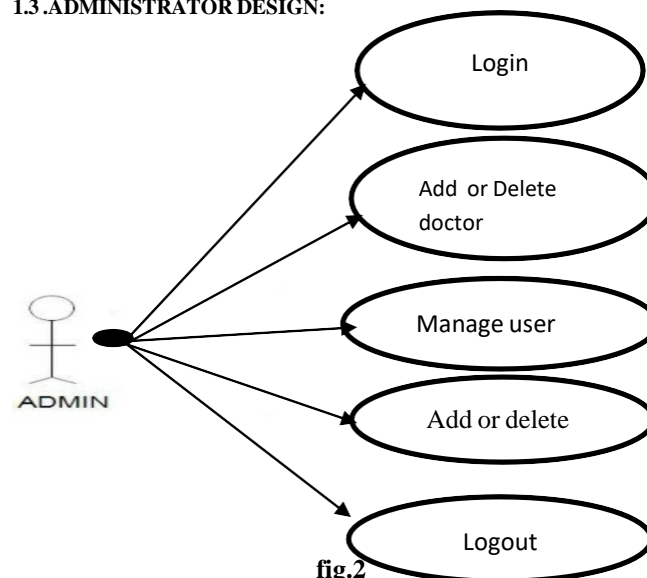
A. Login

- Use: allows the Administrator to access all the functionalities of Health Assistance Application by logging into the account using the username and password.
- Actor: Admin
- Input: the username and password of the administrator.
- Output: if the username and password are correct then he is redirected to home page else prompted to re-enter the login details

B. Add or Delete Doctor

- Use: allows admin to add or delete a doctor form the catalogue then he is able to insert a doctor or delete a doctor using the rights of the administrator and the doctor details will be updated in the website and database.
- Actor: Admin
- Input: the Administrator can add a doctor the by clicking the insert button in the doctor page and provide the following details related to the doctor
1. Title
2. Doctor
3. Domain
4. Image
5. Specialization

He can delete a doctor by clicking the delete button from the doctor page to remove the doctor from website catalogue and database

- Output: The new doctor catalogue is displayed in the website under the category specified by the administrator

C. Management of the Users

- Use: the administrator can remove or add an user, he can do this by his management rights.
- Actor: Admin
- Input: the Administrator can attach an user by clicking the insert connection button on the usertab, then the selected user may be removed.
- Output: the final revised user list will be processed for further use

D. Logout

- Use: Used to end the admin session from thewebsite by clicking logout option.
- Actor: Admin
- Input: By clicking the logout .
- Output: When The c Admin clicks the logoutbutton the account session comes to an end.

MAIN REQUIREMENTS:

Hardware requirement	Software requirements
512mb of ram	My SQL: it is a Relational Database ManagementSystem (RDBMS)
Dual higher core processor or	JAVA: it is programming Language used forbackend programming.
	Web browser: usedaccess the website. to
	Eclipse: It is an application that helps you to quickly customize a web server and database.

IV. CONCLUSION :

The health assistance application offers numerous advantages over traditional healthcare access methods. Unlike physical healthcare facilities, where services may be fragmented and time-consuming to access, the online health platform centralizes a variety of health services, saving users time and improving convenience. This solution addresses issues of limited availability in traditional facilities by connecting users to multiple healthcare providers and services in one digital space.

This project efficiently maintains user records, tracking health service usage, appointments, and medication orders. It also reduces administrative workload by providing a comprehensive record of service availability and inventory. The platform keeps detailed records of booked appointments, medication orders, and service utilization, supporting efficient and streamlined healthcare management for users and administrators alike.

V. ACKNOWLEDGMENT

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