SEHAT- Healthcare & Medical Assistance Website

Yash Mhatre, Pranjal Pandey, Rida Shaikh, Srushti Hon, Avani Kale

ABSTRACT

In recent years the internet is pretty much everywhere, in every house and on every phone. People use all kinds of sites to simplify things in daily life. This website is made based on an idea that could improve healthcare right in a local area. It would let users find out about hospitals nearby, or track down pharmacies and medical stores. There is also a way to get suggestions on which hospital might fit best, and even locate clinics easily, and BMI calculator to check body mass index. For users who struggle picking a hospital or booking a doctor appointment, this app seems like it could be useful. In emergencies, it might offer quick help too. Kind of bridges that gap when you need info fast. It is a handy helping tool which could revolutionize the healthcare system.

Keywords: Healthcare, Locality, Hospital Search, Appointment Booking, BMI Calculator

INTRODUCTION

The spread of internet technologies has transformed our lives, particularly in healthcare. Many people struggle to find the right hospitals, schedule appointments, locate pharmacies, and access urgent care. Often, patients and their caregivers waste a lot of time searching for hospitals, clinics, and pharmacies late at night or after hours, especially during emergencies. This happens because of poor access to healthcare information and communication, leading to delays in getting the care they need and causing inconvenience for patients. Because of these challenges, there is a growing need for a smart and user-friendly healthcare system that offers patients:

- Timely and appropriate access to medical information and services.

- Healthcare management systems that use modern web technologies enable individuals to access healthcare-related services from home.

Smart healthcare websites and applications also provide multiple helpful features, including: hospital addresses and phone numbers; physician profiles; appointment confirmation; location of medical stores; emergency contacts; and a variety of health-related tools. These systems enhance communications between healthcare providers and patients while reducing manual input and time spent performing tasks manually.

Sehat stands out by providing users with a simple and privacy-friendly way to access healthcare services without needing live location tracking. Instead of relying on exact GPS data, the website allows users to enter their area. This gives them more control over their information while still enabling them to find nearby hospitals, doctors, and medicines. This method is especially useful for anyone seeking quick medical support while prioritizing their privacy. Sehat also combines essential healthcare features such as booking appointments, searching for doctors, checking medicine availability, and calculating BMI. This makes it easier and faster to get the help you need. This paper presents a new healthcare website that aims to simplify

how people find and use local medical services. The website includes features like finding doctors, managing appointments, searching for nearby medicines, and accessing useful health tools, all within one simple and organized platform. By focusing on local options, the system helps users obtain the care they need more easily and improves their overall experience. This paper demonstrates how this approach not only makes healthcare more accessible but also respects users' privacy, providing a practical example of a digital healthcare solution suitable for everyday life.

2. Motivation and Objectives

Motivation

The healthcare system is still dealing with a lot of problems like waiting for a time to see a doctor booking appointments by hand not managing records well and having trouble getting information from hospitals. Patients often have a time managing their medicines, health records and emergency services in a simple way.

The SEHAT system was made to give people a smart and easy to use healthcare platform that puts all the healthcare services in one digital system. The SEHAT system wants to make healthcare easier to get to save people time and make managing healthcare simpler for users of the SEHAT system.

Objectives

- To make booking a doctor appointment simpler for users of the SEHAT system.
- To make it easy for users of the SEHAT system to get information about hospitals and doctors.
- To help users of the SEHAT system manage their health records using the SEHAT system digitally.
- To reduce the amount of work that has to be done by hand. The time people have to wait using the SEHAT system.

3. Related Work

Some of the papers our team went through and the work we understood is:

1. Doctor’s Appointment Online Booking Application – P.P. Deshmukh (2025)

The Doctor’s Appointment Online Booking Application by P.P. Deshmukh is about creating a website where people can book doctor appointments online. This system helps reduce the paperwork involved in booking appointments. It is a website where users can choose a doctor select a time slot and book an appointment. The system also keeps track of appointments. The result of this research shows that the application helps reduce waiting time for patients makes booking appointments easier and's convenient for both patients and doctors. However the system has some limitations. Does not have all the advanced features that a healthcare system should have.

2.. Development of a Web-Based Application Pharmacy Finder – Lemmy Njurenda and Moses Mupeta (2025)

The paper Design and Development of a Web-Based Application Pharmacy Finder by Lemmy Njurenda

and Moses Mupeta is about a system that helps users find pharmacies near them. The approach used in this study is to use the internet to help people find pharmacies. The technique used is a website that uses location services and has a database of pharmacies. Users can search for pharmacies based on the medicines they need and their location. The result of the research shows that the application makes it easier for users to find pharmacies. It helps people get the medicines they need. The system needs to have accurate and up-to-date information about pharmacies.

3. Fitness Tracker (BMI Calculator) Web Application – 2025

The Fitness Tracker (BMI Calculator) Web Application is about a website that helps people calculate their Body Mass Index (BMI). The approach used in this project is to promote health awareness by calculating BMI. The technique used is a website where users can enter their height and weight to calculate their BMI. The system provides information about the users health, such as if they are underweight, normal weight, overweight or obese. The result of the application is that users become more aware of their health and can track their fitness regularly. However the application only calculates BMI. Does not provide advanced health analysis.

4. Mobile Personal Health Care System for Patients with Diabetes – F. Zhou (2011)

The research paper Mobile Personal Health Care System for Patients with Diabetes by F. Zhou is about a system for diabetes patients. The approach used is to use phones to help patients manage their diabetes. The technique used is an application that tracks blood sugar levels, patient records and other health data related to diabetes. The application helps patients manage their condition better by tracking their health. The result of the research shows that the system helps patients manage their diabetes better and become more aware of their health. However the system is for diabetes care and does not support other diseases.

5. Geospatial Pharmacy Navigator – 2024

The Geospatial Pharmacy Navigator research is about a system that helps users find pharmacies near them using maps. The approach used is to use map technologies to improve access to pharmacies. The technique used is a combination of map technologies, websites and mobile applications to help users find pharmacies near them. It provides directions and information about pharmacies making it easier for users to get the medicines they need. The result of the system is that it improves access to pharmacies and provides location-based healthcare services. However the application needs map data and regular updates to function properly.

6. Pharma-Flow: Medicine Searching and Store Locating – Mr. Shaik Mahabub Subhani and Mrs. Ch. Rekha (2025)

The paper Pharma-Flow: Medicine Searching and Store Locating by Shaik Mahabub Subhani and Ch. Rekha is about a system that helps users search for medicines and find stores. The approach used is to use the internet to help people find medicines. The technique used is a website that is connected to a database of medicines and pharmacies. Users can search for the medicines they need and find stores that have them. The result shows that the application makes it easier for users to find medicines and medical stores. However the system does not provide real-time updates about the availability of medicines in stores.

7. Hospital Location Allocation using GIS-Based MCA and AHP – Sakti Mandal (2023)

The research paper Hospital Location Allocation using GIS-Based MCA and AHP by Sakti Mandal is about finding the locations for hospitals using map technologies. The approach used is to plan healthcare infrastructure using analysis. The technique used is a combination of map technologies, Multi-Criteria

Analysis (MCA) and Analytical Hierarchy Process (AHP) methods to determine locations for hospitals. The system analyzes population, accessibility and geographical data to improve the placement of healthcare facilities. The result of the study is planning and optimization of hospital locations. However the process is complex. Needs accurate geographical and demographic data.

8. Assessment of Quality Care in Healthcare Sector – Roshan Bhadabhare (2023)

The paper Assessment of Quality Care in Healthcare Sector by Roshan Bhadabhare evaluates the quality of healthcare services. The approach used is to assess and analyze healthcare quality standards. The technique used is a review and comparative evaluation of healthcare services, patient care quality and management systems. The result of the research highlights standards and practices required for quality healthcare services. However the study mainly focuses on evaluation and does not provide practical implementation methods.

9. Customer Perception Towards Online Ticket Reservation – Dr. S. Santhakumar (2023)

The research paper Customer Perception Towards Online Ticket Reservation by S. Santhakumar is about how users feel about reservation systems. The approach used is to analyze customer behavior and satisfaction in services. The technique involves collecting data through surveys and statistical analysis to understand user opinions about booking platforms. The result of the study shows that online reservation systems improve user convenience and satisfaction. However the research is limited to the transportation sector. Does not directly focus on healthcare systems.

10. Web-Based Facility Allocation System with Google Maps Integration – Laban Mugisha (2024)

The paper Web-Based Facility Allocation System with Google Maps Integration by Laban Mugisha is about a system that helps allocate and locate facilities using the internet and maps. The approach used is to manage facilities and optimize location-based services. The technique used is a combination of websites and Google Maps API to allocate and locate facilities effectively. Users can easily find facilities and navigate using digital maps. The result of the research is that it improves facility allocation and provides navigation support, for users. However the system needs internet connectivity and API services to function properly.

Highlight overlaps and differences with proposed work

The healthcare web application that is being proposed has things in common with a lot of research that has been done before. It is similar to the Doctor's Appointment Online Booking Application because it tries to make it easier for people to get healthcare and reduces the time they have to wait. This system also has some things in common with the Design and Development of a Web-Based Application Pharmacy Finder, Pharma-Flow: Medicine Searching and Store Locating and Geospatial Pharmacy Navigator. All of these systems help people find pharmacies and healthcare services using location-based technologies.

The proposed work also has a feature that calculates BMI, which's similar to the Fitness Tracker (BMI Calculator) Web Application. This feature is included to help people become more aware of their health.

The proposed project also uses maps and location services which's similar to Hospital Location Allocation using GIS-Based MCA and AHP and Web-Based Facility Allocation System with Google Maps Integration. This helps make healthcare more accessible to people.

Most other systems only do one thing, like booking appointments or finding pharmacies. The proposed work is different because it combines a lot of healthcare services into one platform.

It is not like the Mobile Personal Health Care System for Patients with Diabetes which's only for people with diabetes. The proposed system is for anyone who needs healthcare support.

The Assessment of Quality Care in Healthcare Sector is also different because it only talks about the quality of healthcare in theory. The proposed work actually does something about it by creating a web application that's easy to use.

Overall the proposed system is different, from systems because it puts a lot of different things together like finding healthcare services finding medicine calculating BMI sharing information that is true and helping people with location-based healthcare. This makes it a complete system that is easier to use and more efficient. The healthcare web application is a platform that has all these things in one place making it more comprehensive and user-friendly. The healthcare web application is designed to support healthcare, which is why it includes so many different features. The healthcare web application is a platform that does many things, which is what makes it unique.

4. Research Gap

Many healthcare applications that we have today only do one or two things like letting us book a doctor appointment or giving us hospital information. Most of these systems do not put all healthcare services in one place. This means users have to use applications for different things like booking appointments remembering to take medicine looking at health records and getting emergency help. This can be. Take a lot of time.

Another big problem with these systems is that they are not easy to use. Some healthcare applications are hard for people to understand and use. Sometimes patients cannot get to healthcare information quickly because the system is too complicated.

Most of the time healthcare applications do not give us the support we need such, as reminders to take our medicine managing our health records keeping track of our body mass index and sending us notifications. Many systems only let us book appointments. Do not give us all the tools we need to manage our healthcare every day. Healthcare applications should give us all these things in one place. Healthcare applications should be easy to use and give us the support we need like healthcare applications that remind us to take our medicine and help us keep track of our health records.

Existing healthcare systems do not do a good job of providing all the services people need.
Many healthcare applications are missing some things like letting people make appointments get reminders, about medicines look at their health records and get notifications all in one place. The way you navigate through some systems is really complicated. It is not easy to use. Users also have a time remembering to take their medicine because the reminder system is not very good. When it comes to storing health records it is not done in a very good way. If someone needs help away many systems are not able to provide the support they need. Most systems are not designed to manage every part of a person’s healthcare. It is hard for users to get to all the healthcare services they need at the time. Some healthcare applications are just not good enough for people to use every day to take care of their health.

The SEHAT Smart Healthcare Platform is made to fix the problems that people have with the healthcare systems. This project puts all the healthcare services in one place on the web so it is easier for people to manage their healthcare. It helps people book appointments check what hospitals are like keep track of their medicines upload their health records calculate their body mass index and get notifications all in one place. People do not have to use a lot of applications to do these things. This saves people a lot of time. Makes things more convenient for them.

5. Proposed Approach

The SEHAT system is a website that helps people with their healthcare needs. It was made using HTML, CSS and JavaScript. The main goal of SEHAT is to make it easy for people to get the healthcare services they need from one place.

To use SEHAT you have to sign up and log in first. You can make an account log in and even reset your password if you forget it. After you log in you will see the page where you can find all the healthcare services.

The appointment part of SEHAT lets you choose a doctor and book a time to see them. You can pick a time that works for you. The hospital part shows you information about the hospital like how to contact them and a map to help you find it. The medicine part helps you keep track of the medicines you need to take and reminds you when it is time to take them.

You can also upload your papers to SEHAT and keep them organized. There is a tool to calculate your Body Mass Index, which's a measure of your health. You will get reminders about your appointments, medicines and medical papers.

SEHAT also has a section for administrators. They can use this section to see and manage information, about the people who use SEHAT. The SEHAT system is set up in a way that makes it easy to use and maintain. Each part of the system does a job, which makes it organized and easy to fix if something goes wrong.

Main Components of SEHAT:

1. User Authentication Module

This is where people can sign up for the website log in change their password and get into the site safely. The User Authentication Module is really important for the website.

2. Dashboard Module

The dashboard is like the page of the website. From here people can get to all the things the website has to offer for healthcare. The Dashboard Module is the place where users can see everything.

3. Appointment Module

People can look at the doctors who're available and book a time to see them. The Appointment Module helps users find a doctor and pick a time that works for them.

4. Hospital Module

This part of the website has information about hospitals like where they're how to get in touch with them and a map to help people find them. The Hospital Module is useful for finding hospital details.

5. Medicine Module

Users can keep track of the medicines they take search for medicines and get reminders to take their medicine. The Medicine Module is helpful for people who take a lot of medicines.

6. Health Records Module

This part of the website helps people upload and manage their records on the computer. The Health Records Module is good for keeping all records in one place.

7. BMI Calculator Module

People can put in how tall they are and how much they weigh to figure out their BMI and see if they are healthy. The BMI Calculator Module is a tool that helps users check their health.

8. Notification Module

The website sends messages to people about their appointments, medicine schedules and medical records. The Notification Module is like a helper that reminds users about things.

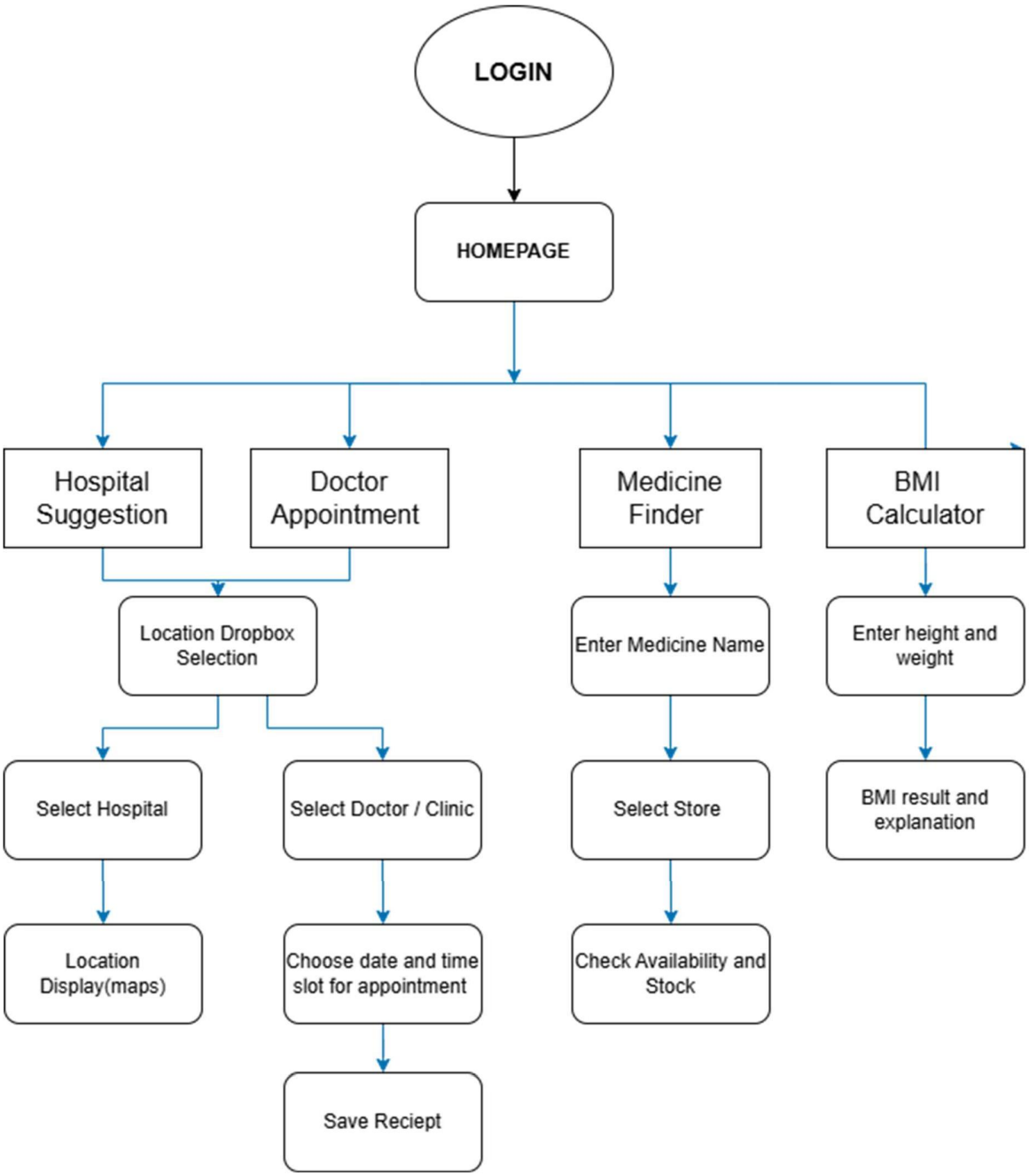
9. Admin Module

The admin panel is where the people in charge can manage the users and watch what is going on with the website. The Admin Module is important, for the people who run the website.

Workflow:

- The user opens the SEHAT website.
- Then the user creates an account. Logs into the SEHAT system.
- When the user is logged in the dashboard. It has all the healthcare services of SEHAT on it.
- The user selects the SEHAT module that the user needs.
- The SEHAT system processes the request that the user made.
- All the information is. Updated in the SEHAT system.
- The SEHAT system generates notifications and alerts when the user needs them.
- The admin is in charge of managing and monitoring all the activities of the users, on SEHAT.

Flowchart



6. Benefits and Limitations

Benefits -

- Designing for privacy: The site doesn't need access to your live location, which helps reduce privacy concerns and gives you more control over your information.
- Locality based healthcare system: This platform allows users to search for healthcare services by locality, making it a suitable option for people who want nearby options and don't rely on GPS.
- Many services on a single platform: The system has integrated doctor search, appointment booking, medicine availability and BMI calculation in one single website which improves the convenience.
- Simple and easy to use interface: The web site is easy to understand and use, so it is accessible even to users with limited technical knowledge.
- Suitable for everyday health care needs: The platform offers appointment scheduling and medicine lookup to solve common problems faced by users in everyday health care access.

Limitations -

- It depends on the user entered locality: The website doesn't use live location so the accuracy of results depends on the correctness of the locality name entered by the user.
- Data dependency on updates: Doctor lists, availability of medicine and appointment details are effective if admin or system owner updates it regularly.
- Automation is limited in real time: Some users will spend longer entering details manually and refining search results, without automatic location detection.
- Availability information is subject to change rapidly: Stocks of medicines and appointment slots are subject to real-time changes, so keeping the data up to date is a challenge.
- Scalability and integration issues: The system may require more robust backend support and better database management for efficiency with an increase in the number of users and healthcare records.

7. Applications

- Supporting daily healthcare planning.
- Helping users find nearby hospitals in an unfamiliar area.
- Checking medicine availability in nearby medical stores.
- Providing quick support during emergencies by locating healthcare services.
- Making healthcare access easier for elderly or non-technical users.
- Helping families plan regular medical visits and local pharmacy needs.

CONCLUSION

We conclude that developing a hybrid system in so important and maintaining it to its potential. The system demonstrates that a simple web-based solution can tackle common healthcare search problems in a structured and user-friendly fashion.

The main contribution of this work is the design of a privacy-aware healthcare website

which does not use live location access. Instead, the platform adopts locality input to search for nearby medical services in a safer and more flexible manner. This makes the system valuable for improving local healthcare access while keeping the user experience simple, efficient, and reliable.

Future work can be focused on real-time updates for medicine availability, improved appointment scheduling and more accurate search for local healthcare providers. The system can also be improved with doctor reviews, emergency contact integration and multilingual support to make it more useful for a larger group of users. These enhancements can further position Sehat as a viable digital platform to support healthcare.

REFERENCES

[1] P.P Deshmukh, "Doctor's Appointment Online Booking Application", IJNRD, 2025.

[2] Lemmy Nyirenda and Moses Mupeta, "Design and Development of a Web Based Application Pharmacy Finder", IJASRE,2025

[3] "FITNESS TRACKER (BMI CALCULATOR) WEB APPLICATION", IJETRM,2025

[4] F. Zhou, "Mobile personal health care system for patients with diabetes," Graduate Theses and Dissertations, 2011.

[5] "Geospatial Pharmacy Navigator: A Web and Mobile Application Integrating Geographical Information System (GIS) for Medicine Accessibility", IJACSA,2024

[6] Mr. Shaik Mahabub Subhani and Mrs. Ch Rekha, "PHARMA-FLOW: MEDICINE SEARCHING AND STORE LOCATING",IJARST,2025

[7] Sakti Mandal, "Hospital Location Allocation in Murshidabad District by GIS-Based MCA and Analytical Hierarchy Process",JGEESI,2023

[8] Roshan Bhaladhare, Dr Parag Rishipathak, "Assessment of Quality care in the health care sector: A Systematic Review", ECB ,2023

[9] Dr. S. Sanathkumar, "A Study on Customer Perception Towards Online Ticket Reservation with Special Reference to Land Transport System in Tamilnadu Region", EELET ,2023

[10] Laban Mugisha, "A WEB-BASED FACILITY ALLOCATION SYSTEM WITH GOOGLE MAPS INTEGRATION", Uganda Christian University ,2024