
HEALTHPLUS - AN ALL IN ONE MEDICAL COMPANION

PREPRINT, COMPILED JANUARY 1 , 2023

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ABSTRACT

The field of healthcare has really witnessed many transnational health issues for the past four years. The medical industry faced so many problems, and also the invention of technology really made significant advancements in delivering services to the customers. As a result of searching for the best, we will be witnessing so many fraudulent ways also. So it is important to select the best treatment from the verified profiles. On account of this concept, we have launched a website named Healthplus for selecting the best treatment. The website is actually a fully equipped medical companion. Nowadays almost every hospital has their own applications or website for their services. But we can't ensure the authenticity because there are chances for over glorification. So, what we are introducing here is an integrated platform for the patients. We provide verified profiles of many hospitals, clinics and doctors. The patients can choose the best doctor and best hospital/clinics based on the reviews from the previous patients. On the other hand, we are also providing fixing of appointments. Live token system is introduced here and patients can understand whether tokens are available in the hospital or not. By integrating the information of medical shops to the HEALTH+ we can purchase medicines and check the availability of medicines. In total we can implement a simple and integrated medical website and the medical world can use the advancements in technology. Health care sector is considering the invention of applications and websites related to the medical area as a boon, which redefines society. A good and effective rapport between the doctor and the patient is developed.

Keywords Website for Healthcare · Medical companion · Artificial Intelligence · Technology · Artificial Intelligence

1.INTRODUCTION

Mobile apps are becoming increasingly popular among healthcare organizations as a way to offer superior services across borders. In recent years, Health applications have gained significant traction as they transform the healthcare ecosystem. These apps are now a vital tool for extending the reach of the medical and healthcare industry, improving efficiency, communication, and the quality of care. Supported by smartphones and tablets, they allow for new and innovative ways to deliver healthcare services outside of traditional care settings. Additionally, Health apps have the potential to increase the productivity of healthcare professionals and improve patient health outcomes.

There are many digital innovations that are revolutionizing healthcare, and technology in medicine is here to stay. These innovations have greatly improved healthcare and there are already numerous new solutions on the market. This project is an innovative website that aims to provide comprehensive medical assistance. Good health is essential for living a full and happy life. When a person leads a healthy lifestyle, they are able to maintain good physical and mental health, and this can even extend their lifespan.

The Covid-19 pandemic has had a severe impact on the health and lives of many people. The disease has affected thousands, either making them sick or causing fatalities. The high number of deaths and cases has resulted in a reduction in direct contact between hospitals and patients. In response to this, a number of medical assistance applications and websites have been developed. The website we are launching, called HEALTH+, is an all-in-one medical companion that helps users with their medical needs.

We have designed the user interface to be simple and easy to use. There are separate logins for doctors, hospitals, and users, and verified profiles allow users to choose the best services. Open reviews from customers provide genuine feedback. The website also allows for the fast purchase of tokens, appointment bookings, access to information about the availability of medicine, and open reviews. Medical providers are selected based on their high-rated customer service as determined by open reviews. We also provide a list of medical shops and hospitals based on the user's location, and the live token system helps to avoid queues. By integrating information about medical shops, users can purchase medicine and check its availability.

In summary, we have created a simple and integrated medical website that utilizes technology to make the medical world more efficient. The website's secure and data-protected mode makes it easier to market the service. An integrated environment is essential for providing good customer support, as it avoids the need for users to install multiple applications or sign up on different websites. While a mobile application is useful, a successful business also needs a website. Our website has the added advantage of displaying live tokens, which helps to manage customer flow for medical stores and hospitals. We also offer a reward system as a marketing strategy and have a separate login system to ensure that users can easily find their designated area within the application.

2. SERVICES WE FOCUS

- The main service is the patients can get verified profiles of many doctors, hospitals and other clinics under one umbrella
- Live token system provided on the website really helps the individuals to manage their time, by knowing the available tokens in every specific hospital
- We also provide insurance recommendation system, which mainly provides assistance to the patients in case of choosing the best insurance for them
- Users can create their own profile and they will be provided with their lab test reports and other tests in it.
- Also plans for the usage of Artificial Intelligence for the diagnosis.
- Introduction to safe and data mode. Safe mode does not contain any advertisements whereas data mode has advertisements. This is actually the integration to google ad sense service.

3. CURRENT MARKET ANALYSIS

The outbreak of covid-19 havoc has really made the healthcare industry inclined more towards the application of technology in the field. As a result, we have many applications and websites that deal with healthcare services. So, what makes the HealthPlus different is that we make the UI more simpler and integrated service mechanism. Currently the applications are providing limited services to the patients. Currently we have more than fifty thousand applications available in google play store. But the problem is simple. Lack of proper data, satisfactory issues, and complex UI, as reported by many customers.

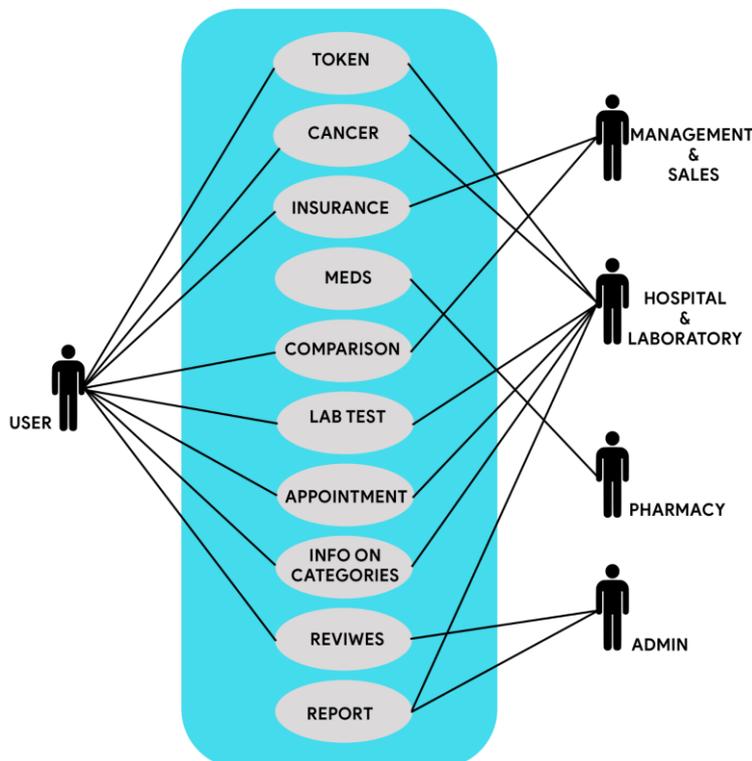
Both non-government and Government organizations really encouraged the usage of mobile applications in the pandemic period. These applications are mainly used not only for booking appointments, accessing services by hospitals etc. but even minute matters like monitoring the heartbeat while running. So as far as the health care sector is concerned, the usage has drastically increased. But this has resulted in serious threats also. This includes data security, privacy concerns, sensitive information access, hacking issues etc. So, by the introduction of HealthPlus we do eliminate these problems to a certain extent.

4. TECHNOLOGY USED

The website is actually a blend of technical knowledge with medical services. We have used a number of languages for building the user interface of the website. As we focus more on transforming the complex UI to the easier one, the usage of JAVASCRIPT, PHP, HTML and CSS. The contribution of jQuery to the creation part was obvious. The design became more presentable and often easy to handle even to the beginners.

The usage of ad sense is a good way of gaining income. This is actually the marketing strategy that we have adapted by introducing it into the data mode. The handling of advertisements is not done directly. Every service related to the advertisements is done through the platform owned by google for their ad sense services. Google does the work of collection of money, providing advertisements according to the choice of user, maintaining good and useful relationships, while hosting advertisements. When we analyze the data, it is estimated that 32% of the income is taken by google and remaining 68% of the income goes with the publisher. We have used PHP location tagger, Deep learning, DNS blocker, predictive text and a little bit of Artificial Intelligence as we are in the infancy stage of development.

5. USE CASE DIAGRAM



6. MODULE DESCRIPTION

The following modules are identified when it comes to the main framework of working of the website.

6.1 USER/PATIENT

The user is the one who accesses the entire service of the website. User is an important part of the working. The users will be provided with a login section and can find the best hospitals nearest by using the location access. The user can also get the profiles of doctors and clinics which are 100% verified and not fabricated.

6.2 HOSPITAL/CLINICS

The hospital is a place where it plays a vital role in the treatment of the patient. The patient can choose the right hospitals with proper accreditations and needed certificates. At the login time, even the hospitals need verifications. Only the verified profiles are included in the website.

6.3 DOCTOR

Doctors are also given a login section which is also subjected to verification. Doctors are asked to add their profiles and details.

7. CONCLUSION

Our application can effectively analyze and implement technology in the medical field. There are many digital innovations in healthcare that have greatly improved the industry. Our project is an innovative all-in-one medical assistance website. Good health is essential for living a fulfilling life. Our application helps doctors to provide accurate diagnoses and prescribe the most appropriate medications, while also allowing medical staff to efficiently record and track patient information. Health apps, such as those offered by Fitbit, allow individuals to monitor and improve their health daily.

Mobile apps and websites like ours can also be used for real-time consultation and information sharing with doctors worldwide, as well as for improved monitoring of patient health. Custom-designed remedies using patient data can help doctors provide optimal solutions to individual patients more efficiently. In addition, secure payment gateways in healthcare mobile apps make bill payment convenient and timely. Overall, the use of technology in the medical field has greatly improved the healthcare industry and benefits both patients and healthcare workers.

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