



Development of Integrated HealthCare Web Portal

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Abstract: The Paper Presents integrated health care web portal an emerging technology that provides the patients the all necessary healthcare services through one portal with 24 hours access. The challenge we faced so far is maintaining the confidentiality of patient's health data, the integrity and correctness of diagnosis results. The e-health Portal can do many backend medical services efficiently. A major challenge in designing such a system is to meet critical security requirements, such as the confidentiality of patient data, the integrity of diagnosis results, and the availability of healthcare services. In this thesis I address the issue from the access control perspective. The address authentication for real time services provided by remote service providers.

Keywords: HealthCare, E-HealthCare, Doctors, Online.

I. INTRODUCTION

There is an increased interest in the adoption of E-Healthcare solutions and the fundamental change on how patient records, service provider communication and appointment scheduling can be delivered. An E-Health portal is secure online web portal that gives patients convenient, 24-hour access to personal health information from anywhere via an internet connection, often "tethered" to their integrated electronic health records. E-Health portals save the patient time, also keep them organized, up to date and deliver a higher overall level of convenience-e.g. No longer needing to return to their healthcare provider to gather results or make calls to book a follow-up appointment. E-Health portals offer benefits for not only the patients but also to service providers and staff as well. From the service provider's point of view, the electronic appointment booking system through E-Health portals has clear potential for benefits including reduce appointment. Using of online E-Health portals in various countries across world, it has become highly challenging to find such online system or portals that could fit all. In fact, this is one of the reasons why we set out to create one-we needed to create one that could fit the needs of a specific population group. Inspired by the advanced features of E-Health portals, several countries have already adopted custom-built online healthcare systems and we decided to do it too.

II. PROBLEM DEFINITION

In the current ideal scenario, we are developing the web based Health portal which will help the people get regular health reports. With the help of this we can keep regular track and it is easy for user to interact with doctor virtually. New suggestions will be offered on health related problems.

There is growing interest in electronic access to health information and the use of digital data for both disease and health-related tracking. Widespread use of health information technology could potentially increase patient's access to their health in formation and facilitate future goals of advancing patient centred care. Patient-facing health IT should be simply designed to encourage and sustain use and engage patients at various levels of health literacy. Patients increasingly express interest in being involved in medical decision making and desire access to their health information. Despite having increased access to their health data, patients do not always understand this information or its



implications and digital health data can be difficult to navigate when displayed in small-format. The System will basically consists of three different user that would be interacting with the aim of providing better healthcare service through mutual utilization of self-monitoring and the consultation from a specialist. The mutual interaction exists because user will have the option of the sending the data for analysis to the doctor, getting the feedback and then acting on his advice

III.SCOPE

A web application is intended to provide complete solutions for Doctors as well as Patients through a single gateway i.e. using the internet as the sole medium. A web based E-Health portal which will make it easier for user to keep track of their health time to time. It will give them suggestions on their health analysis. It will be useful for the doctors also they can arrange meetings with their patient for regular check-up through portal. It will save doctors and patients time. It will also facilitate the client without profit and loss

IV.METHODOLOGY

The waterfall model was first defined by Winston W. Royce in 1970 and has been widely used for software projects ever since (Hughey, 2009). The model was adopted for this study since the problem statement was clear to the researcher.

1. START.
2. USER CREATES ACCOUNT BY PROVIDING EMAIL ID AS USER ID, ITS OWN PASSWORD AND OTHER DETAILS.
3. LOGIN WITH CREDENTIAL AND IF RIGHT USER GETS THE ACCESS TO WEBSITE.
4. AFTER GETTING ACCESS USER CAN SEARCH FOR THE TIPS TO GETTING HEALTHY LIFESTYLE.
5. ALSO USER CAN SEARCH BMI, NUTRIOUS VALUE OF ANY PRODUCT AND EXERCISE TIPS.
6. AFTER CREATING ACCOUNT OF PATIENT CAN SEARCHES FOR DOCTOR AS PER THEIR REQUIREMENT.
7. AFTER GETTING DOCTOR, PATIENT SENDS REQUEST TO DOCTOR FOR APPOINTMENT.
8. AFTER GETTING REQUEST DOCTOR CAN APPROVE THEIR APPOINTMENT DETAILS.
9. AFTER ALL DOCTOR AND PATIENT CAN CONTACT EACH OTHER.
10. USER CANS LOGOUT.
11. STOP.

V.RESULT AND DISCUSSION

id	Name	Email	Mobile no
1	Patient1	patient1@gmail.com	8454523678
2	Patient2	patient2@gmail.com	2483146851
3	Tejas	tejas7890@gmail.com	8454523678
4	Chaitanya	cps1234@gmail.com	4853217569
5	Shruti	shruti@gmail.com	3247569821

Table : Patient database table

Figure shows database details, when user registered through registration form, it's details are stored in database as shown in figure. When patient search for doctor or vice versa in Database, there are multiple options will be displayed on screen and user can select the desired patient or doctor. output will be displayed as patient profile. When patient upload the information about their health details for sharing with user or doctor, the information of health record and patient will be stored in database.

VI. CONCLUSION

We implement this system for better user experience. This system is very easy access. Also for Establish real time communication, using modern and update technology. The system will complete with user device such as PC, Laptop and Smartphone. So user can easily access the system anytime anywhere. This system is very simple and user friendly. So, any user can use this system easily. At the end we conclude that we made efforts on the following points the description on the background and context of the project and its relation to work already done in the area traditional designs of software systems failed to meet the requirements of our systems. Thus based our design upon a service oriented architecture that can satisfy the stated functional requirements. Our e-health portals can integrate different medical services and applications. This design inherited the advantages of both models and was cost efficient.



VII. FUTURE SCOPE

As we know time is money and people are getting busy day by day, our system reduces the time which is main advantage. Also now a days handling documentation and handling physically becomes so hard, so by doing all this thing online project ensures that no data will be lost. In today's world everyone wants to get things done easily and without any hassle so we tried to make our system much reliable and faster. Also by using this system the admin can easily find the record of any item. As this system is online it is easy and fast to retrieve data or information from any item in the database.

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