WWW.IJRPR.COM

International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Disease Diagnosis and E-Appointment System

Gowri R

UG Student, Sri Krishna Adithya College of Arts And Science, E-mail: 21bscs207gowrir@skacas.ac.in

ABSTRACT

Patient-centeredness is becoming more and more important in the healthcare industry. The growing understanding of the patient's role in the planning and delivery of health care is essential to this change. Major advancements are being made in medical appointment scheduling, which serves as the foundation for the majority of non-urgent health care services, in order to encourage patient participation. Patients have better access and more flexibility when choosing their preferences for appointments when they use the Internet as a medium. The aim of this study was to determine the unmet needs in the existing health care environment as well as the advantages and obstacles to implementing Web-based medical scheduling that have been covered in the literature. The "Disease Diagnosis And E-Appointment System" project was created with SQL Server as the backend, ASP.Net as the front end, and C#.net as the coding language. It assists users in finding appropriate hospitals with an e-appointment system and aids in disease diagnosis. Appointment scheduling systems are used by the majority of clinics and hospitals to control patient access to healthcare practitioners. Because online appointment scheduling tends to provide fragmented time periods, it is vital. In this project, a method for guiding the appointment scheduling process using schedule defragmentation and the disease diagnosis option is provided, taking into account the mutual preferences of the patient and the hospital. The suggested website makes it easier for users to find and schedule doctor appointments online. This aids in locating the precise nearby hospital that is appropriate for the user's illness. The project can significantly lessen scheduling issues and hospital searches in the healthcare industry. Furthermore, a diagnosis of the ailment has been made in order to determine its nature from the user's profile and symptoms.

1. INTRODUCTION

Among the sectors with the fastest global growth is healthcare. Prior to the last few years, appointments for medical care were typically made over the phone or in person at the hospitals. People have been demanding more and more time-honored and effective medical care delivery due to the frustration that manual appointments and lengthy wait times have caused for healthcare facilities. Online appointment scheduling is becoming a popular trend and is essential to the healthcare sector. The underutilization of a physician's time is caused by patients who miss appointments or arrive late. With the hectic lifestyles we lead today, a well-thought-out appointment system could increase patient satisfaction while saving clinics and hospitals money and time. The use of an online scheduling system provides patients and physicians with numerous advantages and value-added services. By removing the inconvenience of lengthy wait times, it shows the patient how much they are valued. The online appointment booking system, available around-the-clock, offers a complete way to improve the efficiency and streamline medical facilities. It's easier for patients to register, schedule appointments, and access their health records online, making the process more effective and easy.

2. LITERATURE SURVEY

The proposed system studies about the classic appointment disease handling, diagnosis and appointment getting problems that every patient/user often encounter in processes in services or healthcare. The proposed work brings a new web application with automatic disease diagnosis with hospital suggestion process along with the doctor appointment. The system helps to improve the service of medical field. The user/ patient can find out the disease for their symptoms. Initially the system asks the user to register themselves with their basic information’s such as name, gender, date of birth etc., then the user should enter or select their symptoms after the analysis the system will provide the appropriate hospital and medical service to the patients or users based on the symptoms. If the result is not satisfied by the user, then he/she can fix appointment in the nearest hospital /doctors.The suggested website makes it easier for users to find and schedule doctor appointments online. This aids in locating the precise nearby hospital that is appropriate for the user's illness. The project can significantly lessen scheduling issues and hospital searches in the healthcare industry. Furthermore, a diagnosis of the ailment has been made in order to determine its nature from the user's profile and symptoms.

3. DATAFLOW DIAGRAM

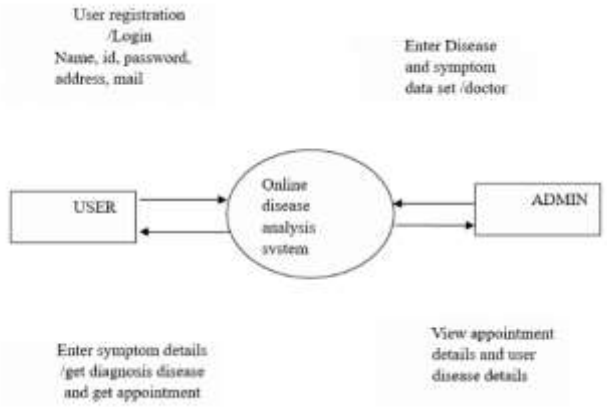

Fig. 1.1

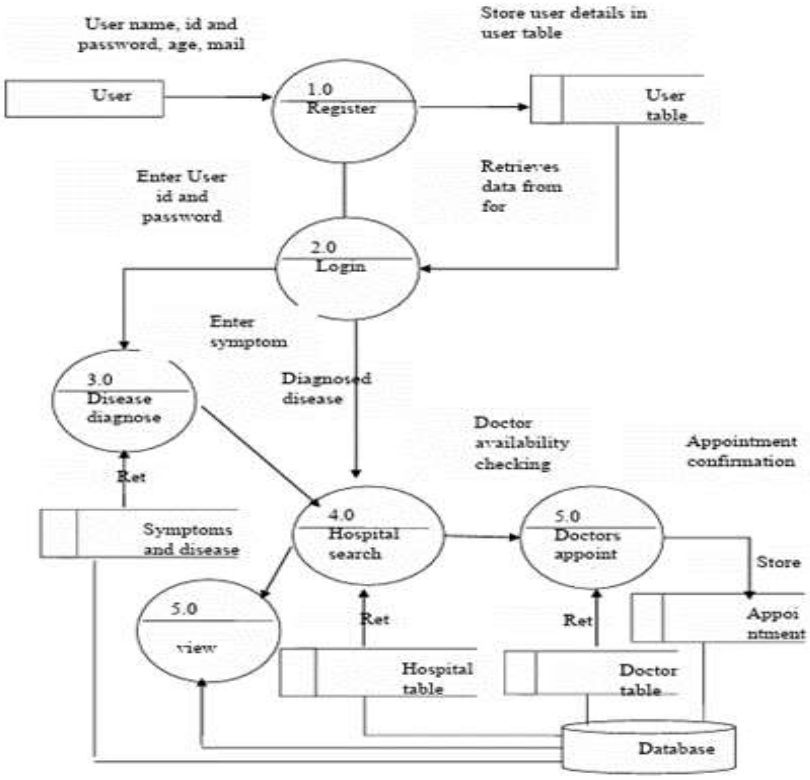

Fig1.2

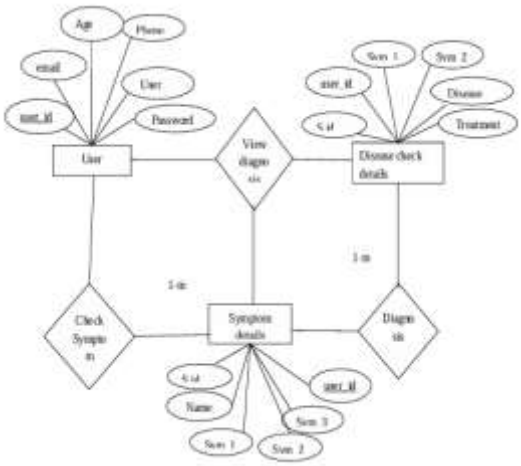

Fig1.3

4. MODULE DESCRIPTION

Authentication module:

This module provides security and prevents from unauthorized users. It allows only users with the correct username and password. Thus, it provides authentication. The system provides user side registration and login process. It maintains the information about the patient such as their ID, name, blood group, gender, age, etc.

Data set Insertion module

The admin will collect the dataset and uploads using the interface. The admin can add dynamic dataset based on the availability. The admin inserts the following data's, Symptoms details, disease details such as name of the disease, type of the disease, symptoms of the disease. The admin can able to upload the images related to the symptoms and diseases, Doctor details, Hospital details.

Symptoms Checker Module:

User should enter or select their symptoms after the analysis the system will provide the appropriate medicines and medical service to the patients or users based on the symptoms in this module the server collects the information of patient like symptoms of a problem in particular portion of a body. Gathering information and problem of a patient like vomiting and other symptoms. This maintains the information about the patient such as their address, contact number, height, weight, blood group etc.

Diagnosis module

In this, server finally identifies the problem and detects the type of disease affected for the particular patient and gives detail report is generated. In this, server ask for the condition of the patient, if the patient condition leads to sever condition for example if the patient is continuously facing a regular problem like vomiting or anything else, the server can easily identify the patient condition and problem. The sign and symptoms form contains the information about the patient's health. It holds details such as what symptoms and signs there for the patient. It may be normal or it may show some symptom of fever. Based on the symptom the system will suggest a set of medicines and instructions. If the user not satisfied with the result, he/she can get appointment with the doctor through the website.

Hospital details and appointment

According to the symptoms the server sends the specialized hospital according to the 16 reviews and priority the patient can choose the best hospital for their treatment. The patient has got the standards and hospitality of the hospital. Based on the selection, the user can able to get appointment. The appointment can be done via both online and offline.

Report

This module deals with all the reports that can be generated from analysing the patient's health condition. Based on the health condition of the patient, they can undergo treatment from the doctors. In this final report generation, the patient can get detail information about his/her health condition and report generated successfully

5. CONCLUSION AND FUTURE ENHACEMENT

5.1 CONCLUSION

This project was concluded that the application works well and satisfy the needs. The application is tested very well and errors are properly debugged. It also acts as the sharing of files to the valuable resources. The application was tested very well and the errors were properly debugged. Testing also concluded that the performance of the system is satisfactory. All the necessary output is generated. This system thus provides an easy way to automate all the functionalities of consumption. If this application is implemented in little consumption, it will be helpful. Further enhancements can be made to the project, so that the website functions in a very attractive and useful manner than the present one. It is concluded that the application works well and satisfy the needs. The application is tested very well and errors are properly debugged. It also acts as the sharing of files to the valuable resources.

5.2 FUTURE ENHANCEMENT

Every application has its own merits and demerits. The project has covered almost all the requirements. Further requirements and improvements can easily be done since the coding is mainly structured or modular in nature. Changing the existing modules or adding new modules can append improvements. Further enhancements can be made to the application, so that the system will be immediately blocked while attacks take place. In future all transaction will be processed in a secure manner and can find the intruders activity by getting all relevant details.

6. REFERENCES

[1] Alex Homer, 'Professional VB.NET 1.1', 2004 Edition, Worx Publications

[2] A. Keyton Weissinger, "ASP IN A NUTSHELL", Shroff Publishers and distributors Pvt.Ltd, February 1999

[3] A. Russel Jones," ASP.NET Complete Reference", Sybex Publications, February 18,2002

[4] Clayton crooks II 'Learning Visual Basic .Net Through Applications'

[5] Henry F. Korth, Megraw-Hill," DATABASE SYSTEM CONCEPTS", Third Edition, 1997.

[6] Paul Bertucci, Sams publishing, "SQL SERVER HIGH AVAILABILITY", First Edition, 2004.

[7] Richared Fairly Tata Megraw-Hill Publications, "SOFTWARE ENGINEERING CONCEPT", Third Edition, 1997.

[8] Roger S Pressman, 'Software Engineering', 2000 Edition, Dreamtech Publications

[9] Steven Holzner, 'Visual Basic.NET Black Book', 2003 Edition, Dreamtech Publications.