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Abstract

As the name suggests we are developing a HEALTH MAP Proposed system for disease prediction would be an automated system that collects patient data, such as medical history, symptoms, and lab results, and uses that data to predict disease risk. The main challenge in developing such a system is the accuracy of the predictions.

The system must be trained on a large dataset of medical records and symptoms to accurately predict diseases. In addition, the system must be able to handle a variety of input formats and user inputs to ensure accurate predictions. Today healthcare industry has become a big money making business. The healthcare industry uses and produces quite a large amount of data which can be used to extract information about a particular disease for a patient.

This information of healthcare will further be used for effective and best possible treatment for patient's health. This area also needs some improvement by using the informative data in healthcare sciences.

The Disease Prediction System is an intelligent system that predicts the possibility of a person having a particular disease based on their symptoms. This Project is basically predict the disease based on your symptoms. After entering the system you can Login or Registration.

Keywords: legal, disease, navigation, website, database, Functionality, accuracy, prediction



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INTRODUCTION

Today healthcare industry has become a big money making business. The healthcare industry uses and produces quite a large amount of data which can be used to extract information about a particular disease for a patient.

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The main aim of a disease prediction system is to identify potential health risks early on and provide individuals with personalized preventive measures to avoid or manage the disease.

By analysing a variety of personal health data such as age, gender, medical history, lifestyle habits, and symptoms, the system can generate accurate predictions and offer customized recommendations to the user.

By selecting Body part it show some symptoms so based on that user can select their symptoms.

Based on selected symptoms disease will analyse and best hospital showing to get treatment.

1. EXISTING SYSTEM

- The existing system for disease prediction typically involves manually collecting patient data, such as

medical history, symptoms, and lab results, and using this information to make a diagnosis.

- This process is often time-consuming, error-prone, and can lead to misdiagnosis. However, with the advent of machine learning and artificial intelligence, there are several automated systems that can aid in disease prediction.
- One such system is the Health Information System (HIS) developed by the World Health Organization (WHO).
- This system collects data from patients and health care providers and uses it to generate predictive models for disease outbreaks.

2. PROPOSED SYSTEM

The proposed system for disease prediction would be an automated system that collects patient data, such as medical history, symptoms, and lab results, and uses that data to predict disease risk.

This system would be able to provide personalized predictions based on a patient's unique data and would be able to continually learn and improve its accuracy over time.

The data collection component would collect patient data from various sources, such as electronic health records and patient surveys.

The proposed system would have several advantages over the existing system, including faster and more accurate diagnosis, reduced costs, and improved patient outcomes.

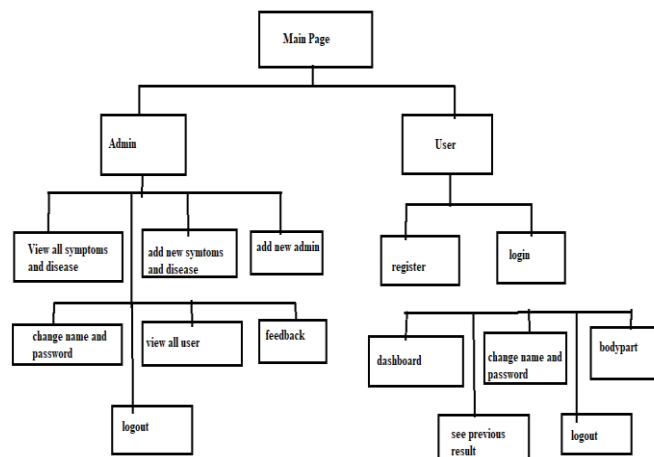
Additionally, the proposed system would be able to provide real-time updates on disease risk, allowing patients and healthcare providers to take proactive steps to prevent disease.

The main challenge in developing such a system is the accuracy of the predictions.

The system must be trained on a large dataset of medical records and symptoms to accurately predict diseases. In addition, the system must be able to handle a variety of input formats and user inputs to ensure accurate predictions.

BLOCKDIAGRAM

Fig1. Module



SOFTWARE AND HARDWARE REQUIREMENT

S/W TOOL

- OperatingSystem-Windows7andWindows10OrLinux
- Technology-WebBasedApplication
- IDE-DreamView
- Front-End – Html, CSS
- Database -MySQL, PHP

H/W REQUIRED

- Processor-IntelCoreI32ndGeneration
- Speed-2.3GHz

- RAM-4GB RAM
- Device-VGA/SVGA

ALGORITHM

- Step1: Start
- Step2: Main page admin login/start checkup
- Step3: admin login see all admin section
- Step4: While click on start checkup it will shoe user login and register for new user
- Step 5: If User is login it will see all user section information
- Step6: If User click on register registration form will open.
- Step 7: After click on Log out User/ Admin Back to Main Page

1. IMPLEMENTATION METHODOLOGY

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UML DIAGRAM:

Fig. a) Admin Module

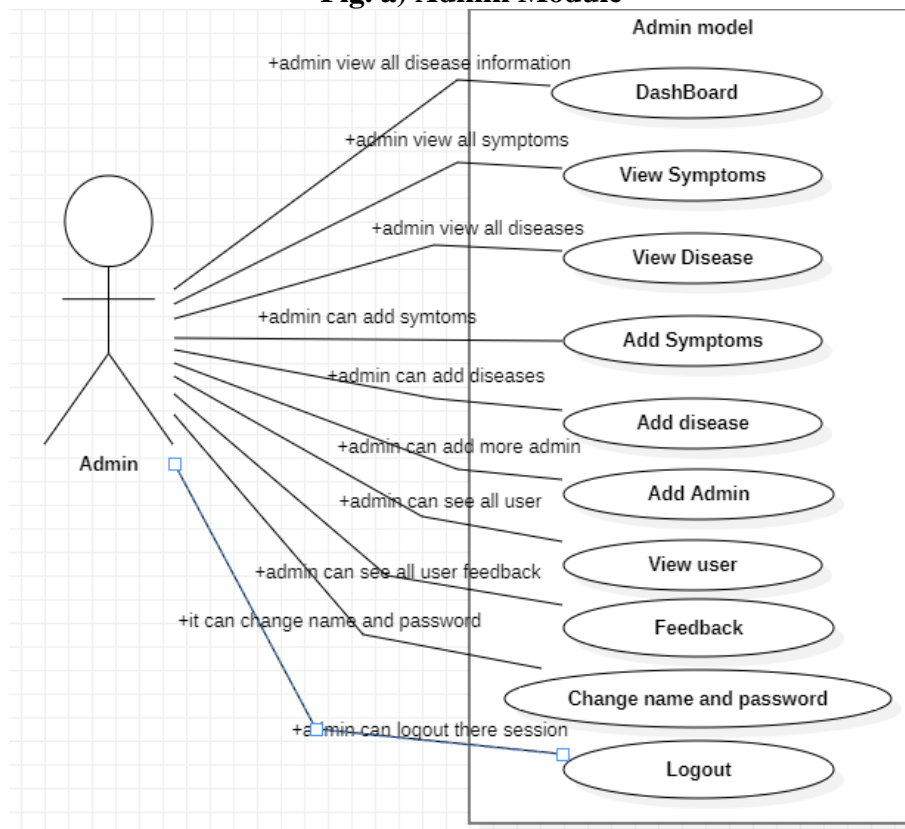
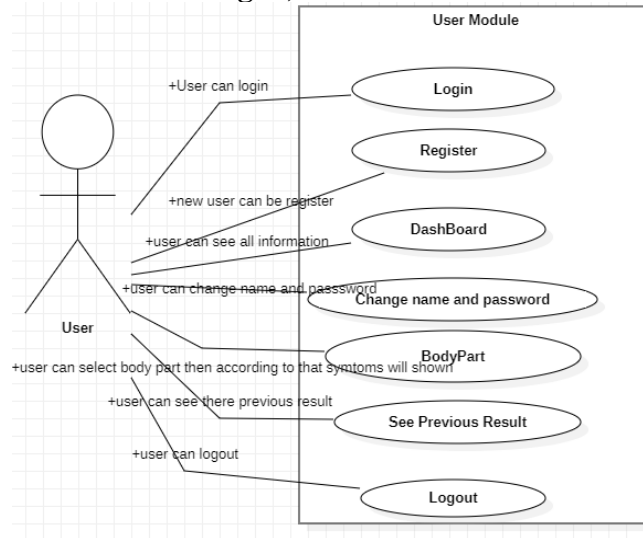
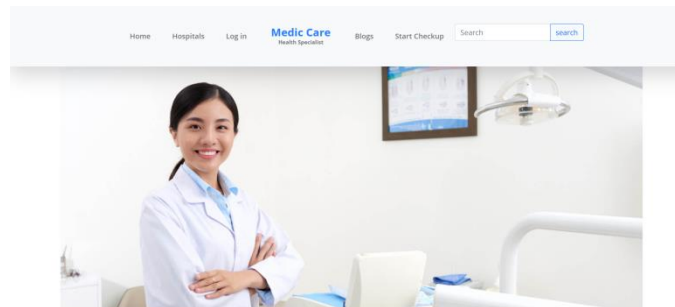


Fig. b) User Module

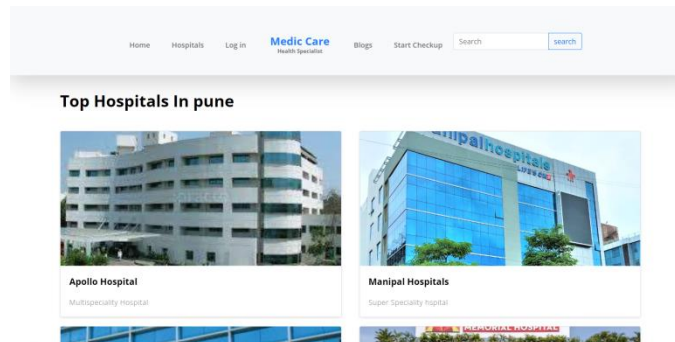


RESULT

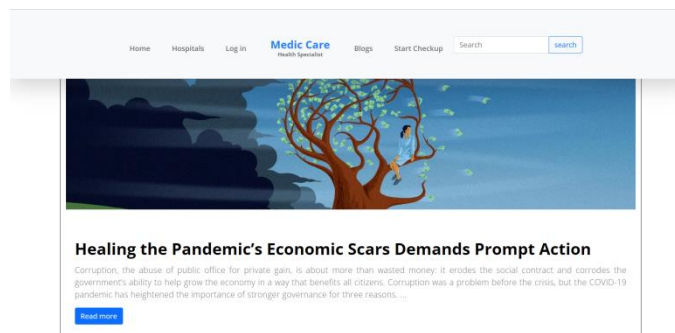
- **Index Page**



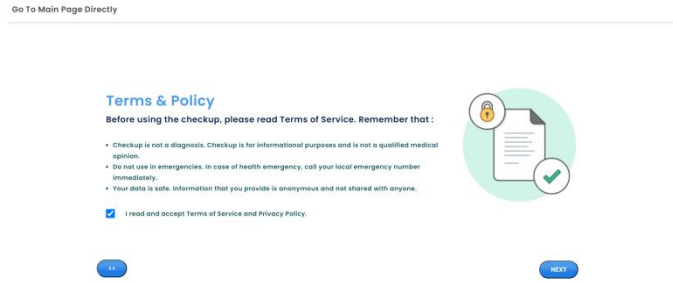
- **Hospital Page**



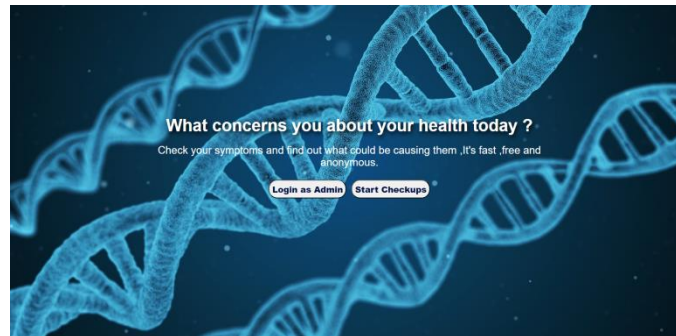
- **Blog Page**



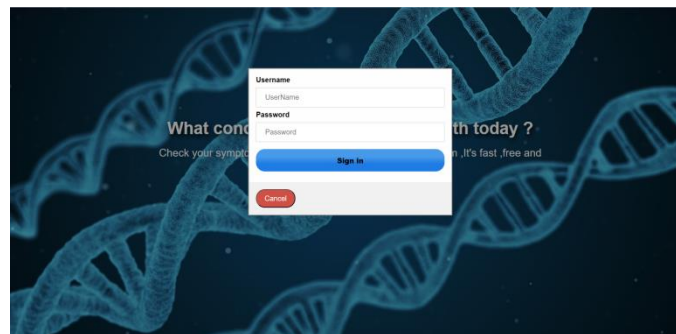
- **Check Page Without Login**



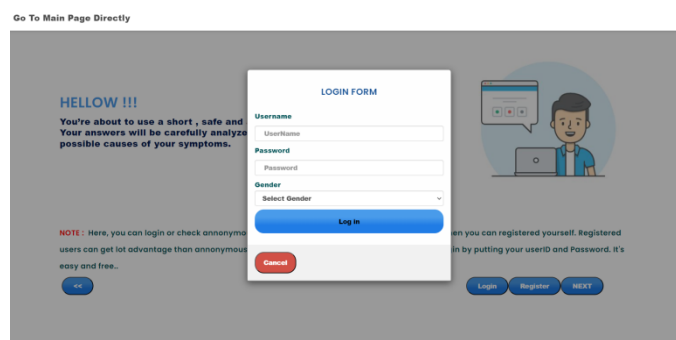
- **Login Page**



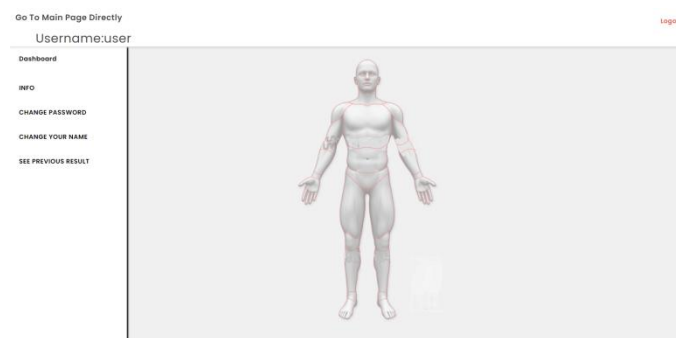
- **Admin Login**



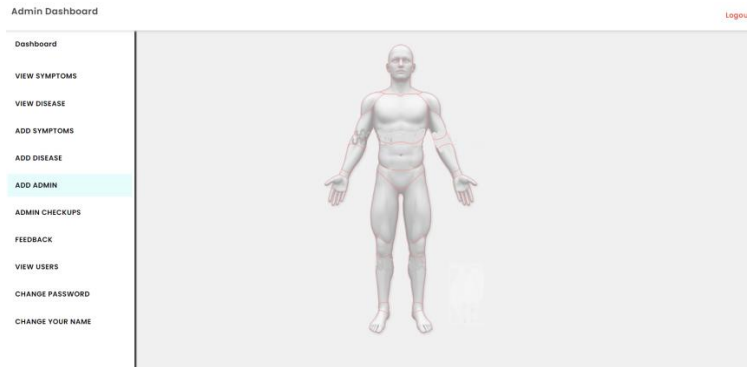
- **User Login**



- **User Dashboard**



- **Admin Dashboard**



3. CONCLUSION

The Disease Prediction System is an intelligent system that can predict the likelihood of a person having a particular disease based on their symptoms.

This system can be used by healthcare professionals and also patient to diagnose diseases early.

The system can also be used by individuals to monitor their health and seek medical attention if necessary.

The proposed system for disease prediction would be an automated system that collects patient data to predict disease risk.

This system would have several advantages over the existing system, including faster and more accurate diagnosis, reduced costs, and improved patient outcomes.

4. FUTURE SCOPE

- As nowadays we can clearly witness the increase in use of computers and technology to consider a huge amount of data, computers are being used to perform various complex tasks with commendable accuracy rates.
- Machine learning (ML) is a collection of multiple techniques and algorithms which permit computers to execute such complex tasks in an simplified manner.
- It is also used in both academics which is for students or learners and also in industry to make accurate predictions and use these diverse sources of dataset and information.
- Till date we can say we have grown in the fields of big data, Machine learning, and data sciences etc. and have been a part of one of those industries which were able to collect such data and the staff to transform their goods and services in a desired manner.
- The learning methods developed for these industries and researches offer excellent potential to further improvise medical research and clinical care for the patients in the best possible manner.
- Machine learning uses mathematical algorithms and procedures which are used to describe the relationship between variables used in the model and the others.
- Though these algorithms work in different and unique manners depending on the way in which they are developed and used by the researchers. One way is to consider their supreme goals.

REFERENCES

1. D. W. Bates, S. Saria, L. Ohno-Machado, A. Shah, and G. Escobar, "Big data in health care: using analytics to identify and manage high-risk and high-cost patients," *Health Affairs*, vol. 33, no. 7, pp. 1123–1131, 2014.
2. K.R.Lakshmi, Y.Nagesh and M.VeeraKrishna, "Performance comparison of three data mining techniques for predicting kidney disease survivability", *International Journal of Advances in Engineering Technology*, Mar. 2014.
3. Mr. Chala Beyene, Prof. Pooja Kamat, "Survey on Prediction and Analysis the Occurrence of Heart Disease Using Data Mining Techniques", *International Journal of Pure and Applied Mathematics*, 2018.

4. . Beniger, The control revolution: Technological and economic origins of the information society, Harvard University Press, 2009.
5. S. Sassi, C. Verdier and A. Flory, "Approches mantique multi-niveaux pour la représentation et le partage des informations dans la gestion de projet", International Conference on Information Systems and Economic Intelligence (SIE'2009), pp. 301-312, 2009.