EMERGENCY MEDICAL HELP

Blood Donation Website

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ABSTRACT:-In web-based medical help support which is mainly used for providing immediate online medical help which includes requesting an appointment with a doctor, maintaining the record of available blood donors, shopping of basic first-aid equipment, get information for Yoga, Ayurveda, Cardio etc which categories in good habits. Emergency Medical Help (E.M.H) is used for maintaining record of blood along with other facilities provided by E.M.H. As we know Blood Bank is more dependent on manual work which is time consuming, if a person requires a particular type of blood and if that type of blood is not available in that blood bank then it is time-consuming to arrange blood from the other blood bank it may affect the patient health because time is more important in accidental cases. So in a web-based blood system is best for checking whether specified type of blood is available or not and also it gives location whether that available.

By providing blood life of people can be saved which is the aim of our project. The project Emergency Medical Help is developed so that users can view the information of nearby hospitals, blood banks.This project is developed by three prospective i.e. hospital, blood bank, and patient/donor. We have provided security for authenticating the user as a new user has to register according to their type of perspective and existing user have to log in. This project requires an internet connection. This application will save time and money. Therefore, this website provides the required information in less time and also helps in fast decision making.

1.INTRODUCTION

functionalities like blood donation system which is based on a centralized database record storing system and requesting an appointment and other activities which brings ease in finding or searching relevant blood group and medical services available which will save time and cost efficiently.

This project provides an elegant management of blood, a list of hospitals, blood banks and donors online. The main purpose of this project is to interconnect all the blood banks, hospitals, donors into a single network, validation, store various data and information about on blood and health of each individual. This system is used to store data over a centralized server which consist of a database where the individuals' information cannot be accessed by a third party.

2.INTERNET OF THINGS FOR HEALTHCARE

Things interact with employing sensors, transceivers, and microcontrollers for empowering communication and is built with suitable protocol stacks which help them interacting with everyone and communicating with the users the illustration of an Internet of Things, thus becoming the constitutive part of the Internet. Nowadays, the Internet is impacting the several aspects of the potential user's everyday life. The dependency of healthcare on IoT is increasing day by day to enhance access to care, strengthen the quality of care and finally reduce the cost of care.

A rising interest in body wearable sensors has recently emerged as powerful tools for healthcare applications and different devices are currently available

commercially for different purposes including personal healthcare, activity awareness, and fitness.

Figure 1: Healthcare monitoring system architecture[10].

3.LITERATURE SURVEY

During a survey, facts came out that patient records and blood records in many of the hospitals and blood banks were not managed properly. Patient's medical history records are not maintained, the healthcare quality was also inefficient. The survey made a conclusion that healthcare facilities can be improved with the help of research in Biotechnology and Information Technology, mainly using Electronic Health Records (EHRs). This paper proposed a simple and pragmatic Employable EHR (EHR) [1] approach also termed as Web-EHR. This approach provides the web-based connectivity among various healthcare center, thus simplifying the maintenance and sharing of data.

Healthcare is one of the basic needs of any person. So, it is important to optimize the healthcare system to make it more efficient. Patients in hospital, clinical deterioration is an important problem. This paper summerises the implementation and deployment of an Emergency Medical Help which is basically a solution for immediate and good medical help.

The strength of the Indian healthcare system is due to its well-trained medical staff. A lot of efforts have been made to improve the quality of the healthcare situation. This paper discusses almost all the efforts that have been made to improve the healthcare system and the outcomes.

According to the survey, a majority of the road accidents in India are due to the driver's ill-health conditions such as cardiac problems or any other serious health-related issues. To prevent the daily happening road accidents and to provide the driver with instant medical facility, a smart healthcare monitoring system is suggested. In the future, this system will also measure physiological parameters such as temperature, pulse rate, etc. and transmits the same using the smartphone to the Internet. If the driver is medically unfit, doctors and transport officers can be alerted about the driver's location.

In today's, modern era IoT based healthcare systems play a key role in the growth of medical information systems.

AYURVEDA

The word "Ayurveda" is derived from Sanskrit: Ayurveda, meaning knowledge of life and longevity.

There are different ways to diagnose illness, called Nadi , Mootra, Mala, Jihva, Shabda, Sparsha, Druk, and Aakruti. There are many senses of diagnosis in which Ayurvedic practitioners approach. Hearing is used to observe the breathing and speech condition. The study of the lethal points is of great importance.

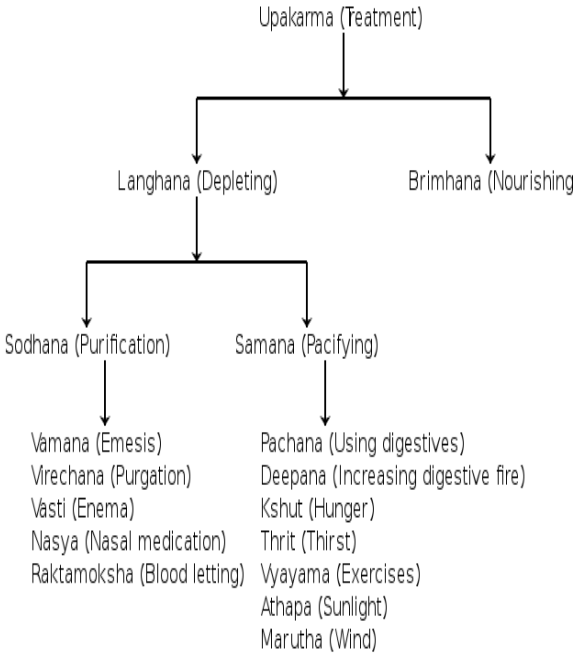

Figure 2: Stages of treatment in Ayurveda[1]

Ayurveda uses alcoholic beverages called Madya, which are said to adjust the doshas by increasing Pitta and reducing Vata and Kapha. Madya is classified by the raw material and fermentation process, and the categories include sugar-based, fruit-based, cereal-based, cereal-based with herbs, fermented with vinegar, and tonic wines. The outcomes include causing purgation, improving digestion or taste, creating dryness, or loosening joints. Texts in Ayurveda describe Madya as non-viscid and fast-acting and say that it enters and cleans minute pores in the body.

FEATURES

ABOUT BLOOD DONATION SYSTEM:-

This website is an online blood and other medical issue management system that helps in managing various blood bank operations, taking an appointment with the doctor, buying medical equipment effectively. The website consists of the central database system of blood availability in various blood banks and hospitals. These details include blood group, donor's information, gender and date of storage. These details help in monitoring the medical report online. The system has also added features such as patient name and mobile number, address, gender and even need for blood in critical condition. This online system is developed on a .net platform and supported by an SQL database to store blood and user specific details.

Login Form: The users that are in need of blood can register online and find their suitable donors online.

Donor registration Form: Donors can also register in the system to post their donation information.

Available blood storage & availability data: The system automatically stores the information as soon as there is any Updation made.

Medical Equipment: The system also allows you to buy medical equipment online.

REQUEST FOR APPOINTMENT

Get Appointment:

After applying for Appointment the doctor will help you out and try to solve the issue online if possible else the person can visit the doctor's clinic.

STATIC PAGES

The page will provide information about few things which should be done by everyone in order to be fit. As follows-

- YOGA
- AYURVEDA
- CARDIO

ABBREVIATION AND ACRONYMS

- EMH-Emergency Medical Help
- HTML-Hyper Text Markup Language
- CSS-Cascading Style Sheets
- SQL-Structured Query Language
- PHP-Hypertext Preprocessor
- IoT-Internet of Things

TOOLS AND LANGUAGES

- Frontend-HTML,CSS,BOOTSTRAP
- Backend-SQL, PHP
- Graphic Designing-Adobe Photoshop, Adobe Illustrator
- Sublime Text Editor

ADVANTAGE

There are many websites mend for providing medical help online but there is no common platform/website which gives easy and fast access for all the medical facilities on the same platform.

- This website will provide access to most of the facilities related to health and first-aid purpose.
- This website will provide facilities like Donate Blood/Find a Donor, take appointment etc.

- Users can get all blood donation details in this system instead of going and searching around for it.
- EMH provides immediate details of blood available in the bank.
- The website (EMH) is very useful as it immediately provides user about the availability of blood.
- The website (EMH) provides immediate details of blood available in the donor.
- The website (EMH) is very effective during emergency conditions.
- It saves their time and efforts.

Diagrammatic Representation–

System Architecture

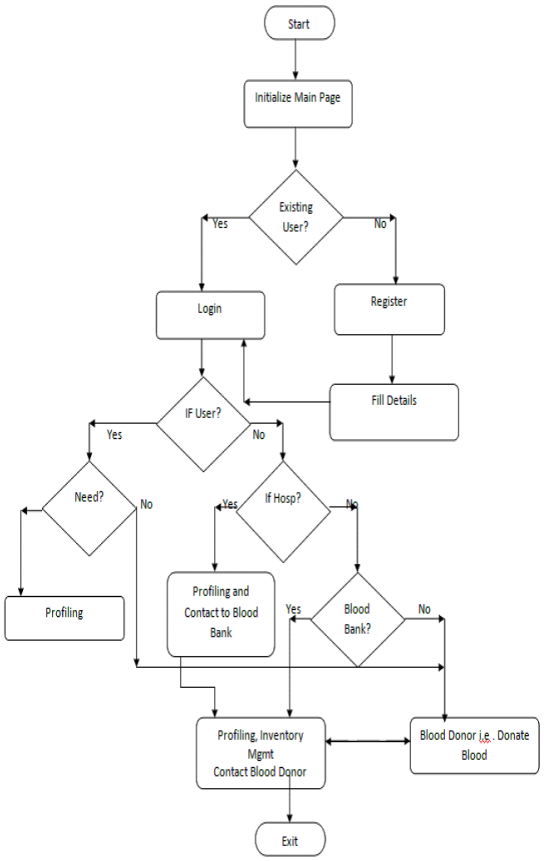

Figure 3: System Architecture of EMH[2]

USE CASE DIAGRAM

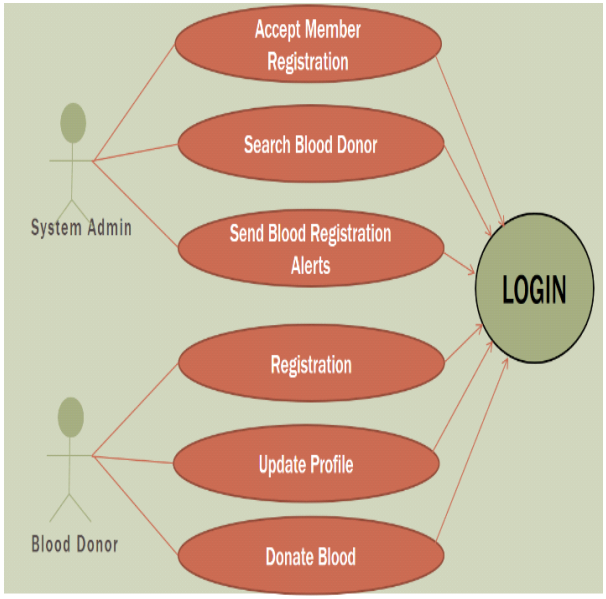

Figure 4: Use Case Diagram1

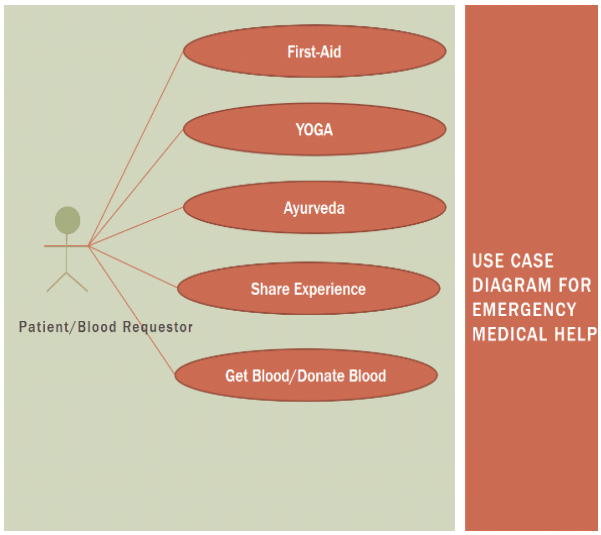

Figure 5: Use Case Diagram 2

LINE OF CODE

```
index.html  yoga.html  ayurveda.html  EMH.css

<!DOCTYPE html>
<html lang="en">
    <head>
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <title>Welcome | Emergency Medical Help</title>
        <!-- Bootstrap Core CSS -->
         <link href="style2.css" rel="stylesheet">
        <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" >
        <!--jQuery library-->
        <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
        <!--Latest compiled and minified JavaScript-->
        <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
        <meta name="viewport" content="width=device-width, initial-scale=1">



    </head>

    <body style="padding-top: 50px;">
        <!---------------------------------------------------------- Header ----------------------------------------------------------->



        <div class="navbar navbar-inverse navbar-fixed-top">
            <div class="container">

                <div class="navbar-header">

                    <button type="button" class="navbar-toggle" data-toggle="collapse" data-target="#myNavbar">
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                    </button>
                    <a class="navbar-brand" href="index.html"><h4>Emergency Medical Help</h4></a>
                </div>
                <div class="collapse navbar-collapse" id="myNavbar">
```

```
index.html  yoga.html  ayurveda.html

body
    {
        max-width: 1000px;
        margin: auto;
        font-family: Roboto;
        font-size: 32px;
        color:tomato;
        background-color: black;
    }
      p {
        font-family: Roboto;
        font-size: 20px;
      }

     #image
     {
         float: left;
         padding: 0px 20px 20px 20px;
     }

     #identity{
    overflow: auto;

}

body{
    padding-top:100px;
}

.navbar-header img{
    width: 100px;
    padding: 0;
    margin: 0;
 background-color:white;

```

Figure 6: Line of Code of EMH

CONCLUSION

This website is mended for public welfare. This website is made keeping in mind that every person in need should get proper medical support and assistance in form of Emergency Medical Help. As we know the demand for blood is increasing day by day, people are not able to find matching blood donor to full-fill their emergency need. This website is going to help the people in finding their adequate blood donor without visiting anyplace which saves time and money both. The EMH is a 24×7 system which is essential for different kinds of people like blood donation system personnel, doctors, donors, recipients, and other general users. This website will also help people in taking an appointment with the doctor.

Hence, we have prepared this website for helping the people in need and to provide proper facility and support in certain circumstances.

ABREVIATIONS

EMH-Emergency Medical Help

LOC-Line of Code

HTML-Hyper Text Markup Language

CSS-Cascading Style Sheet

SQL-Structured Query Language

PHP-Hypertext Preprocessor

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