

HOSPITAL MANAGEMENT SYSTEM

Project Report

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Table of Contents:	Pages
1. Acknowledgement	3
2. Abstract	3
3. Introduction	3
4. Motivation.....	4
5. Background Analysis	5
6. System Design	5
7. System diagram.....	5
8. User Group.....	6
9. Patient feature.....	7-10
10. Admin feature.....	10-12
11. Doctor patient.....	12
12. Programming language.....	13
13. Tools.....	14
14. Code Implementation.....	16-20
15. Work Planning.....	21
16. ER Diagram.....	22
17. Gantt Chart.....	23
13. Database Snapchat.....	23
14. Analysis & TrelloBoard.....	24
15. Importance.....	25
16. Aspect of Relationship.....	25

17.Future Work.....	25
18.Limitation.....	26
19.Conclusion.....	27
20.Reference.....	28

Acknowledgement

It is an honor for me to thank all those people who made this thesis possible. We want to thank our advisor Intisar Tahmid Naheen. This would not be possible without his help and support.

Abstract:

Our main focus is to design a unique Hospital Management System that will improve hospital experience for both patients and the hospital authorities. The whole system will run on internet. The system is written in PHP, java script, jQuery, HTML and CSS. Users will have the felicity to log in from any place with internet connection. After that they will be able to various tasks that are designed for them. Users are categorized in three groups :(Admin, Patient and Doctor). The primary target is to focus on every user who can get our service and get benefitted. It can be turned into a paid system only for doctors. Where the doctors can get additional cloud storage on payment. A doctor can have different types of patient and the number of patients also vary from doctor to doctor. We can make various package and assign various cost. The patients will have some allocated space which they can use to keep their information. This will make the system useful and more convenient for everyone.

Keeping the goal in mind the system we developed works as a social network where information's are more close and relevant for every user.

This report contains the full details of the system and its functionality in details.

Introduction:

Online hospital management system: A unique cloud based hospital management system for both patients and hospital stuffs (Doctors, Admin). The primary target of this design is to make hospital experience better than we currently have. Hospital is a place where no one willingly wants to visit but there are times when we need to. The old system of hospitals are not very user friendly. The first big stem is waiting in the queue for long hours. There are lots of other problems that makes your hospital experience bad. Our main focus is to make peoples life easier in the hour of need. We are working to design such a system that will reduce a lot of paperwork and save peoples time.

Existing software: You will find hospital management system software in various hospitals in our country. They have great features to help the hospital but that does not allow the patients to manage their own data. This is what gave us the initial motivation to build a system where the system will work for all.

To overcome those limitation we are trying to build a social networking like site for hospitals that will help everyone working in the hospital and their patients.

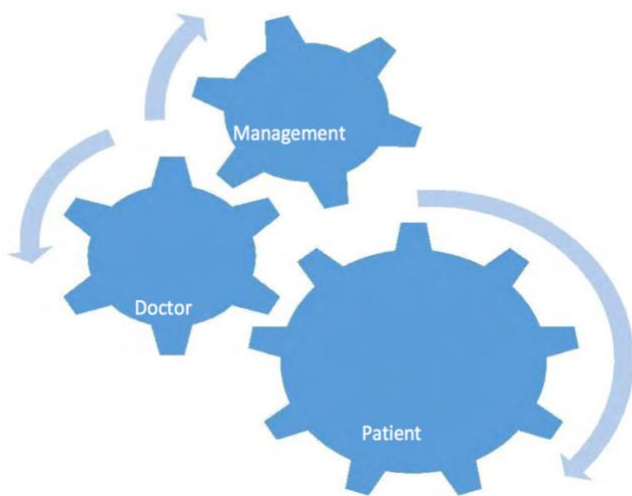
Let's discuss about the system in details and see how it will help us.

There are no such things that comes out without any limitations but we focused to overcome the best we could do. Our main focus was to determine the features for the patients. They are the large community of this system and they deserve to get the most out of this system. There is no doubt that our existing systems does not provide us the facility to check for our information related to our hospital documents. Hopefully this will give us the benefit that we are expecting.

Motivation:

We do not usually visit hospitals unless we need to but this visit does not always gives us good experience. We face various problems there. There are automated hospital management system but they do not provide any functionality for us.

It will be great for the patients to have Appointment to doctor. Patients will be able to browse through all the doctors available and ask for appointment for their desired doctor. A doctor will also experience the similar benefits. This will reduce a lot of paper works and make things easy for everyone associated with it. We have some personal experience visiting the hospital and we also have gathered experience from other people by asking them and observing them for some time. People experience their worst nightmare while they need to visit the hospital. No body visits the hospital unless it is extremely necessary. People get mad but they do not have anything to do then. This gave us the perfect motivation to build something for them and offer them some help at their most needed time.



The complete system with every user group can make this happen.

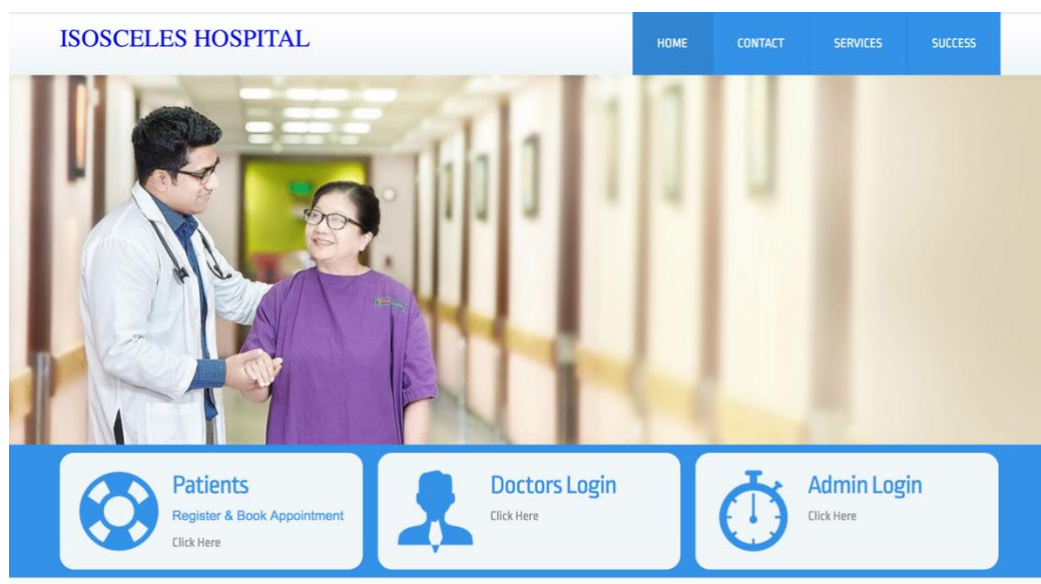
Background Analysis:

Various management program for management are present out there but there any not too many which provides the patients any functionality. The hospital system has been automated but the benefit is not for all. In such a situation we have figured out that there should be something for the patients. Some simple features for checking appointment, asking for appointment, prescription and test reports can reduce the hassle up to 70-80%. Because those are the sector where we face a lot of trouble and can find a way out. So this will allow us something that we were waiting for so long. The world is moving to internet so this is the right time to think about this. We have checked some hospital management system on internet and some local programs that the hospital stuffs are using near me. They are also very well designed and have rich features too but nothing for the patients to be happy about is there. If we compare the benefits and the satisfaction form every point of view then we cannot conclude things beneficial for all. If a system does not provide help for every user group then it cannot be perfect system. We came out a long way with maximizing benefit for all. Still there are a lot of things that can be added but at this point this is the most we can expect.

System Design:



Front page:



Login:

Same page for every group of user:

ISOSCELES | Patient Login

Sign in to your account

Please enter your name and password to log in.

This field is required.

[Forgot Password ?](#)

Login

Don't have an account yet? [Create an account](#)

Admin Login

Sign in to your account

Please enter your name and password to log in.

Login

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Figure: Login Page

A simple login page for all users where users need to select their desired category to log in. After providing the proper user name and password you will be able to log in and enjoy all those features that are designed for you. This is a single interface for all groups of people associated with the system.

User Groups:

There are three categories for users. The features will vary depending on your user type. People will be able to perform certain task in a category which may not be necessary for other categories.

1. Admin:

Admin has the power to create user profile of doctors. They will be responsible for monitoring pending appointment. They will have the most important things to do. As many important things will depend on their action.

2. Patient: Patients are normal users like us. Patient have to create an account and Patient will be able to browse through available doctors and ask for appointments. We can also check our previous history. The patient's functionality is limited based on their need. They will only be able to change their personal information and other things. Obviously they can look for their desired doctors to request an appointment.

3. Doctor: Doctors can check appointments. And Doctor can update their profile and can check appointment history. Which will obviously reduce the workload of doctors and they can give proper time to patients.

Patient Features:

► Sign up Patient

Sign Up

Enter your personal details below:

Full Name

Address

City

Gender

Female

Male

Enter your account details below:

Email

Password

Password Again

☒

I agree

Already have an account? [Log-in](#)

Submit

Figure: Sign Up patient

Patient will sign up for the account and after sign up they can log in and can take appointment to the doctor. When patient sign up for details, they have to add their name, gender, address, set user name and password and finally take email. Email is the tracking key for the user. It has been assigned as the primary key. The responsibility of management is always high. They have to make sure that they enter the every field correctly so the patient does not get into any trouble. If they make any mistake then it will become hard for us to reach our goal. They need to be very cautious specially while inserting email. The email number has other importance as it will be the identity of all the users associated with the system.

Add Appointment -

USER | BOOK APPOINTMENT

Book Appointment

Doctor Specialization

Select Specialization

Doctors

Select Doctor

Consultancy Fees

Date

Time

6:15 PM

eg : 10:00 PM

Submit

Figure: Patient adding appointment

Patient can manually set an appointment to Doctor. They will have to select the doctor's name, patients name and date to add an appointment. This will add appointment for the doctor. The appointment section also has great importance. This gives the power for all to save time and reduce hassle. A patient can only ask for appointment and the management can to set view appointment for them. The management has some important duty here. Doctors has chance of getting multiple appointment for many Patient.

Personal details of Patient:

USER | EDIT PROFILE

User / Edit Profile

Edit Profile

Fuadul's Profile

Profile Reg. Date: 2019-08-25 06:07:07

Profile Last Updation Date: 2019-08-25 08:12:10

User Name

Fuadul

Address

ss

City

bak

Gender

Figure: Patients personal details

After logging in patients will see a brief description of themselves. There will appear their name, gender, address, username and password. Every single important details which is necessary will be there for them. This is just the profile page for a patient. They do not many actions to take from here but they can check and change their information in this page.

► Appointment History.

USER | APPOINTMENT HISTORY

User / Appointment History

#	Doctor Name	Specialization	Consultancy Fee	Appointment Date / Time	Appointment Creation Date	Current Status	Action

Figure: Patient appointment history.

In the history section of the patient page they will be able to check their previous appointment.



Book appointment:

USER | BOOK APPOINTMENT

Book Appointment

Doctor Specialization

Select Specialization

Doctors

Select Doctor

Consultancy Fees

Date

Time

6:45 PM

eg : 10:00 PM

Submit

Figure: Patient book appointment request

In this section a patient will be able to browse throw all the doctors available and ask for appointment for their desired doctor. Another important feature for a patient to set appointment with their desired doctors from sitting at home. We cannot think of anything yet like this. We can now ask for appointments over phone but it is not as convenient as this where you can get your desired things with just several clicks and without any waiting

Admin Features:



Add Doctor

Doctor Specialization

Select Specialization

Doctor Name

Enter Doctor Name

Doctor Clinic Address

Enter Doctor Clinic Address

Doctor Consultancy Fees

Enter Doctor Consultancy Fees

Doctor Contact no

Enter Doctor Contact no

Doctor Email

Enter Doctor Email id

Password

New Password

Confirm Password

Confirm Password

Submit

Figure: Admin adding doctor.

This is another important responsibility for the management. They have to add doctor account in details. There is various things for a doctor. Under personal details, doctor information, settings

there are several details for the doctor to be added. After successful insertion of a doctor the management can assign them patients and appoint them for requests. All those information from every tab needs to be inserted carefully as it will show up with the doctors details. If they insert less information then the patients will not be able to see all information of the doctor. This can lead to a situation where the system may not provide the promised benefit for us. So the admin needs to be careful about this.

Admin Manage Appointment of Patient :

MAIN NAVIGATION

Dashboard

Doctors

<

Patients

>

Manage Patients

Appointment History

Conatctus Queries

<

Doctor Session Logs

User Session Logs

ADMIN | MANAGE PATIENTS

Admin / Manage Patients

Manage Patients

#	Full Name	Adress	City	Gender	Email	Creation Date	Updation Date	Action
1.	Fuadul	ss	bak	male	f@gmail.com	2019-08-25 06:07:07	2019-08-25 08:12:10	<div></div>

Figure: Admin approving appointments

This is another very important responsibility for the Admin to check appointments. Patients can request for an appointment form home but to get that appointment management has to approve it.

Doctor Feature:

► Patient History.

DOCTOR APPOINTMENT HISTORY							Doctor / Appointment History
							⚙
#	Patient Name	Specialization	Consultancy Fee	Appointment Date / Time	Appointment Creation Date	Current Status	Action

Figure: Patient history on doctor page

Another very important feature for a doctor. They can check their appointments list of patients those are appoint to them.

Personal details:

USER EDIT PROFILE		User / Edit Profile
		⚙

Edit Profile

Fuadul's Profile

Profile Reg. Date: 2019-08-25 06:07:07

Profile Last Updation Date: 2019-08-25 08:12:10

User Name

Fuadul

Address

ss

City

bak

Gender

Figure: Patients personal details

After logging in Doctor will see a brief description of themselves. There will appear their name, gender, address, username and password. Every single important details that is necessary will be there for them. This is just the profile page for a patient. They do not many actions to take from here but they can check and change their information in this page.

Programming Languages:

► PHP:

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language.

► jQuery:

jQuery is a cross-platform JavaScript library designed to simplify the client-side scripting of HTML. Used by over 60% of the 10,000 most visited websites.

► JavaScript

JavaScript is a dynamic computer programming language. It is most commonly used as part of web browsers.

► CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language.

► HTML

HTML or Hyper Text Markup Language is the standard markup language used to create Web pages. HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets (like <html>).

Tools:

Xampp Server:

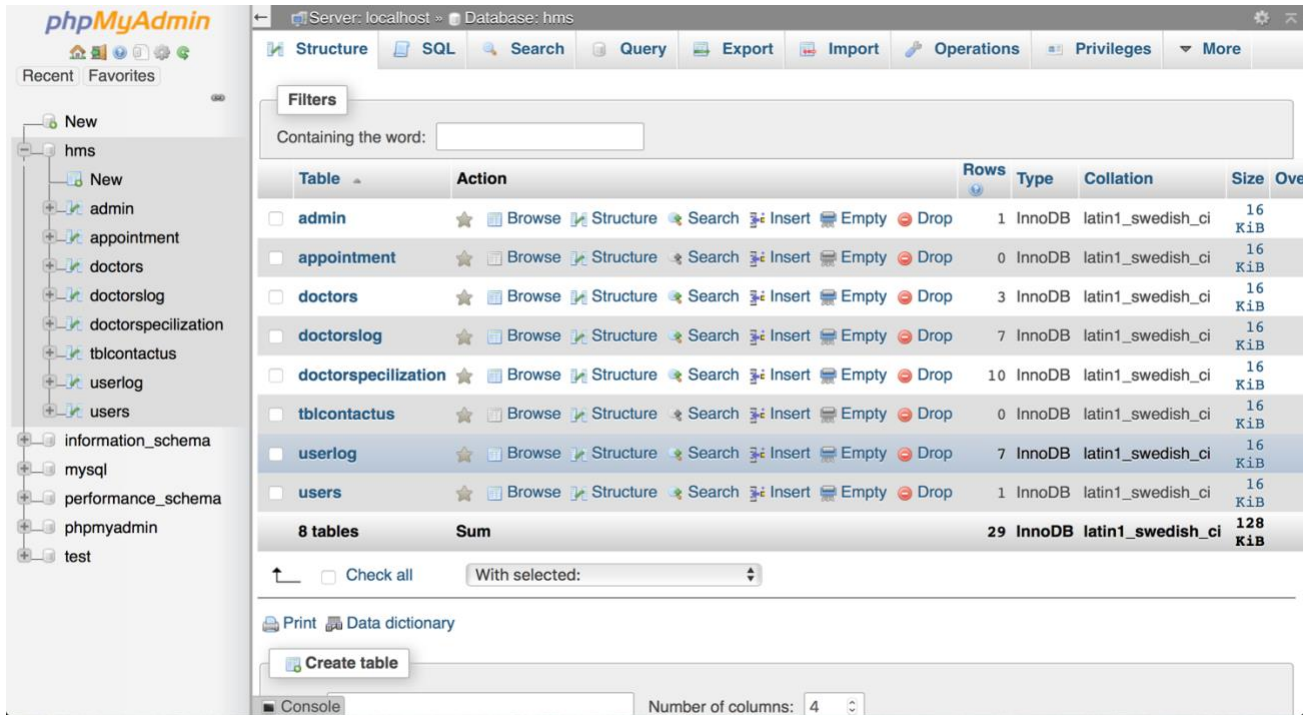


Figure: Xampp Server

This tool allow you to run a server on your computer. A website needs to be hosted on the webserver for everyone to access. This tool allows the user to simply run this and enjoy local web pages similar to those on the internet.

Without buying a domain on the internet this gives you the exact same power to check and manage your work as you can get the exact same output from this tool. This makes a proper field for you to test and manage the project while building it without any extra cost or anything. When the project is complete then you can take it to your domain and release it to the world. The world will see a bug free and tested product for them and this makes your life easy. PHP developers around the world are very fond of this local server and it is also highly recommended for other PHP developers. This are advices that comes from top PHP developers.

Bracket:

A very strong IDE for coding. This allows you to manage your projects better. Along with the opportunity to write code in several language this helps by its built in library. Excellent user interface makes things easier for a user. There are several IDE for us to write code. Many people use notepad to write code. I have also used notepad to work with my project and to manage the

whole project this was a perfect tool for me. This helped me to manage the whole project better and made things easy for me. This can add directory and can manage a project better for us. Many people prefer this tool as the community behind it is also very big and strong. You can expect any kind of help from them as you need them. This is actually the big benefit of using something like NetBeans.

HTML and CSS:

The HTML and CSS tools allow for the inspection and editing of HTML and CSS elements on a web page. Later versions of Firebug allow users to see live changes to the CSS. Visualization of CSS elements is shown while inspecting HTML elements. The Firebug layout tab is used to display and manipulate CSS property values. Furthermore, users can click on any visible HTML elements on a web page to access its CSS property values.

JavaScript Console:

Firebug's script tab enables users to set breakpoints and step through lines of code. Additionally, Firebug can navigate directly to a line of JavaScript code, watch expressions, call stacks, and launch the debugger in the event an error occurs during execution. Firebug can also log errors. Logging uses a Firebug JavaScript API. Firebug's JavaScript panel can log errors, profile function calls, and enable the developer to run arbitrary JavaScript. Firebug allows users to run JavaScript code through the command line and allows the user to log errors that occur in the JavaScript, CSS, and XML. Firebug provides a separate text editor to modify the JavaScript and see immediate results on the user's browser.

As provided in an update, the JavaScript command line features an autocomplete function. The text editor also provides the ability to write full functions. Firebug requires a user to refresh a web page in the event of a crash.

Code Implementation:

Web Site Front Page:

```
<!DOCTYPE
HTML>

<html>

  <head>

    <title>Hospital Management System</title>
    <link href="css/style.css" rel="stylesheet" type="text/css" media="all" />


  </head>
  <body>

    <!--start body area-->


    <!--start-header-->
    <div class="header">
      <div class="wrap">
        <!--start-logo-->
        <div class="logo">
          <a href="index.html" style="font-size: 30px;">ISOSCELE
HOSPITAL</a>

        </div>
        <!--end-logo-->
        <!--start-menu area-->
        <div class="top-nav">
          <ul>

            <li class="active"><a href="index.html">Home</a></li>

            <li><a href="contact.html">contact</a></li>

            <li><a href="success.html">Success Story</a></li>

            <li><a href="services.html">services</a></li>

          </ul>
        </div>
        <div class="clear"> </div>
        <!--end-top-nav-->
      </div>
    <!--end-header-->
  </div>
  <div class="clear"> </div>
  <!--Cover Image---->
  <div class="image-slider">
    <ul class="rslides" id="slider1">
      <li></li>
    </ul>
  </div>
```

```

<!--End-image-Cover---->
<div class="clear"> </div>
<div class="content-grids">
    <div class="wrap">
        <div class="section group">

            <div class="listview_1_of_3 images_1_of_3">
                <div class="listing listing_1_of_2">
                    
                </div>
                <div class="text list_1_of_2">
                    <h3>Patients</h3>
                    <p>Register & Book Appointment</p>
                    <div class="button"><span><a href="#">Click
Here</a></span></div>
                </div>
            </div>

            <div class="listview_1_of_3 images_1_of_3">
                <div class="listing listing_1_of_2">
                    
                </div>
                <div class="text list_1_of_2">
                    <h3>Doctors Login</h3>
                    <div class="button"><span><a href="#">Click
Here</a></span></div>
                </div>
            </div>

            <div class="listview_1_of_3 images_1_of_3">
                <div class="listing listing_1_of_2">
                    
                </div>
                <div class="text list_1_of_2">
                    <h3>Admin Login</h3>
                    <div class="button"><span><a href="#">Click
Here</a></span></div>
                </div>
            </div>
        </div>
    </div>
</div>
<div class="wrap">
<div class="content-box">
<div class="section group">
    <div class="col_1_of_3 span_1_of_3 frist">

</div>
</div>

```

```

        <div class="col_1_of_3 span_1_of_3 second">

        </div>
        <div class="col_1_of_3 span_1_of_3 frist">

        </div>
    </div>
</div>
</div>

<div class="clear"> </div>
<div class="footer">
    <div class="wrap">
        <div class="footer-left">
            <ul>

            <li><a href="contact.html">More About US</a></li>

            </ul>

        </div>

        <div class="clear"> </div>
    </div>
</div>
<!--end-wrap-->

</body>
</html>

```

Connection with database:

```

<?php
define('DB_SERVER','localhost');
define('DB_USER','root');
define('DB_PASS','');
define('DB_NAME','hms');
$con = mysqli_connect(DB_SERVER,DB_USER,DB_PASS,DB_NAME);
// Check connection
if (mysqli_connect_errno())
{
    echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
?>

```

Dashboard of admin , patient, doctor:

```
<?php
    session_start();
    //error_reporting(0);
    include('include/config.php');
    include('include/checklogin.php');
    check_login();
    ?>
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Admin | Dashboard</title>

    </head>
    <body>
        <div id="app">
            <?php include('include/sidebar.php');?>
                <div class="app-content">

                    <?php include('include/header.php');?>

                    <!-- end: TOP NAVBAR -->
                    <div class="main-content" >
                        <div class="wrap-content container" id="container">
                            <!-- start: PAGE TITLE -->
                            <section id="page-title">
                                <div class="row">
                                    <div class="col-sm-8">
                                        <h1 class="mainTitle">Admin |
Dashboard</h1>

                                </div>

                                <ol class="breadcrumb">
                                    <li>
                                        <span>Admin</span>
                                    </li>
                                    <li class="active">
                                        <span>Dashboard</span>
                                    </li>
                                </ol>
                            </div>
                        </section>
                        <!-- end: PAGE TITLE -->
                        <!-- start: BASIC EXAMPLE -->
                        <div class="container-fluid container-fullw bg-
white">

                            <div class="row">
                                <div class="col-sm-4">
                                    <div class="panel panel-white no-
radius text-center">
```

```

        </div>
    </div>
</div>
<div class="col-sm-4">
    <div class="panel panel-white no-
radius text-center">

        <div class="panel-body">
            <span class="fa-stack
fa-2x"> <i class="fa fa-square fa-stack-2x text-primary"></i> <i class="fa fa-users fa-stack-1x fa-
inverse"></i> </span>

            <h2
class="StepTitle">Manage Doctors</h2>

            <p class="cl-effect-
1">

                <a

href="manage-doctors.php">

                    <?php $result1

= mysqli_query($con,"SELECT * FROM doctors ");
$num_rows1 = mysqli_num_rows($result1);
{
?>

                    Total Doctors :<?php

echo htmlentities($num_rows1); } ?>

                </a>

            </p>
        </div>
    </div>
</div>
</div>

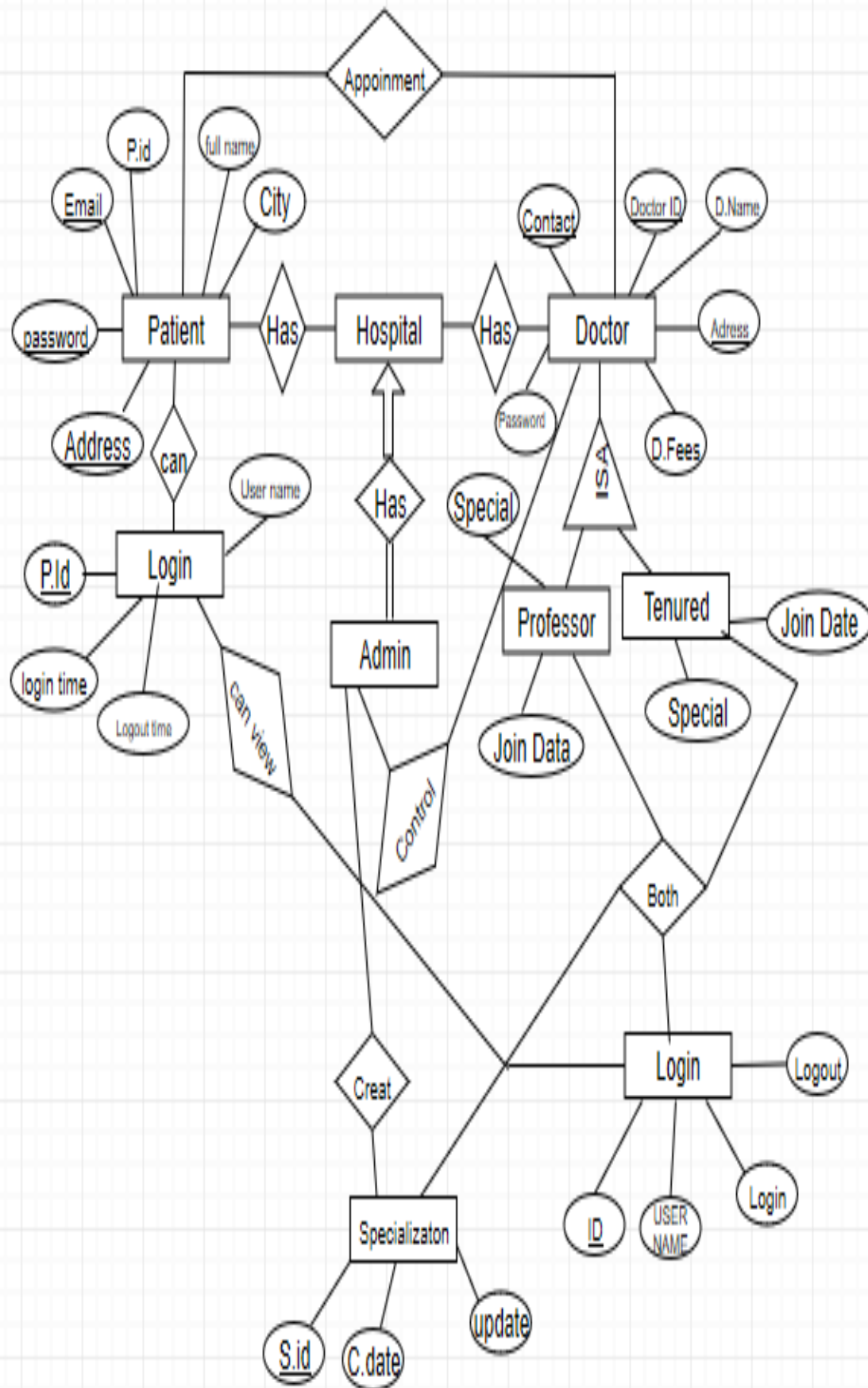
</div>
</div>
</div>
</body>
</html>

```

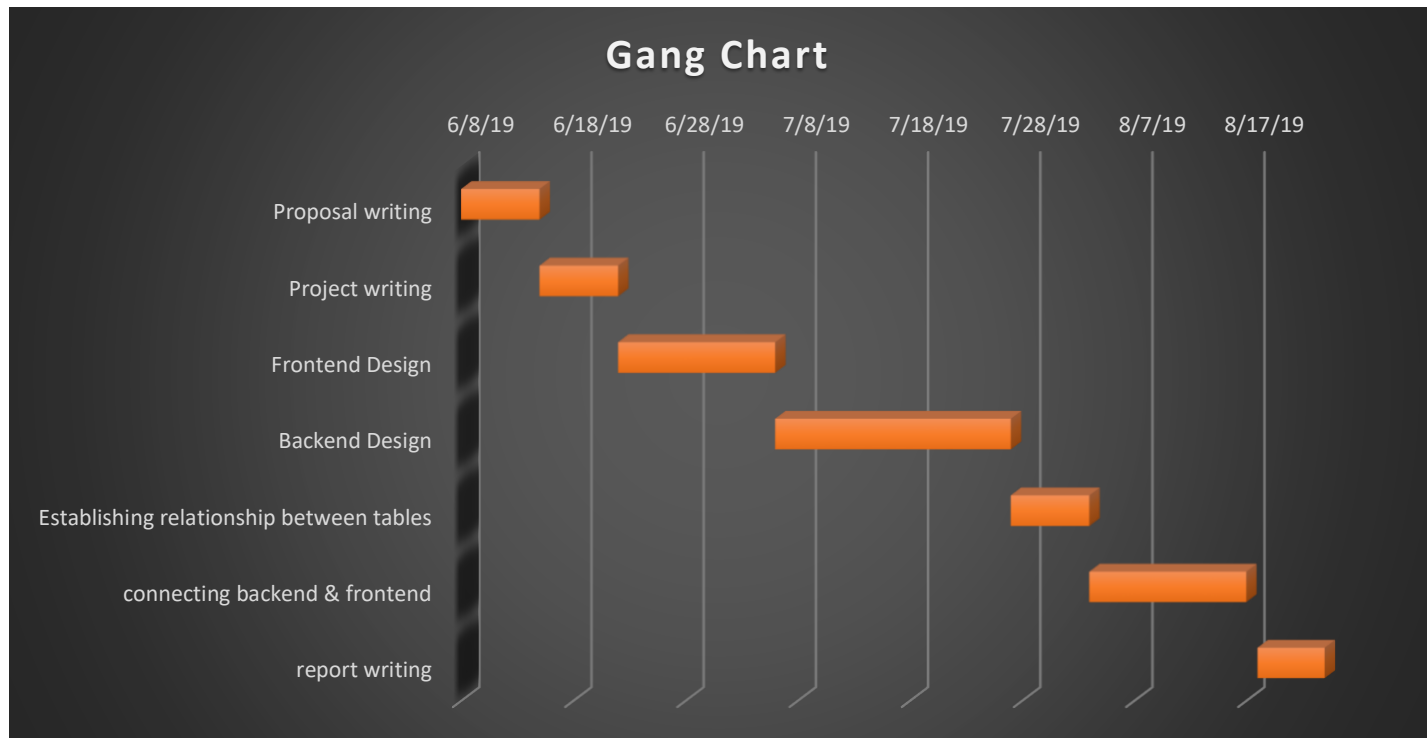
Work Planning

WEEK	Seragis Salekin	Fuadul Islam	Farzia Chowdhury
1	Individual Project Proposal	Individual Project Proposal	Individual Project Proposal
2	Group Final Project proposal	Group Final Project proposal	Group Final Project proposal
3	Website Fronted Design Using Photoshop	Website Fronted Design Using Photoshop	Website Fronted Design Using Photoshop
4	Image Slider Fronted	Header Fronted	Footer Fronted
5	Design Contact Area	Design Service Area	Design Success Story Area
6	Contact backend design	Patient & Doctor login form	Admin login form
7	Doctor Sign Up Form, frontend & backend	Patient Sign up form, frontend & backend	Admin Sign Up Form, frontend & backend
8	Connecting with Database and Admin Dashboard design.	Dashboard design of Doctor	Dashboard design of Patient
9	Patient Backend – Change email, password, edit profile, forget password	Patient Backend – check login, check availability, registration.	Patient Backend – user-login, Book-appointment, Log-out.
10	Doctor Backend- Change Password, Forget Password, Edit Profile.	Doctor Backend- Index of doctor, Header.	Doctor Backend- Log-out, Slide bar.
11	Admin Backend- add doctor, doctor specialization, Edit doctor.	Admin Backend- Edit profile, check availability.	Admin Backend- Manage doctor, Log-out.

ER Diagram:



Gantt Chart:



Database:

Snap shoot of the database:

The screenshot shows the phpMyAdmin interface for the 'hms' database. The left sidebar lists the database structure, and the main panel displays the table list.

Table	Action	Rows	Type	Collation	Size	Over
admin	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16 KiB	
appointment	Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16 KiB	
doctors	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	
doctorslog	Browse Structure Search Insert Empty Drop	7	InnoDB	latin1_swedish_ci	16 KiB	
doctorspecilization	Browse Structure Search Insert Empty Drop	10	InnoDB	latin1_swedish_ci	16 KiB	
tblcontactus	Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16 KiB	
userlog	Browse Structure Search Insert Empty Drop	7	InnoDB	latin1_swedish_ci	16 KiB	
users	Browse Structure Search Insert Empty Drop	1	InnoDB	latin1_swedish_ci	16 KiB	
8 tables	Sum	29	InnoDB	latin1_swedish_ci	128 KiB	

Filters: Containing the word: []

Check all With selected: []

Print Data dictionary

Create table

Console Number of columns: 4

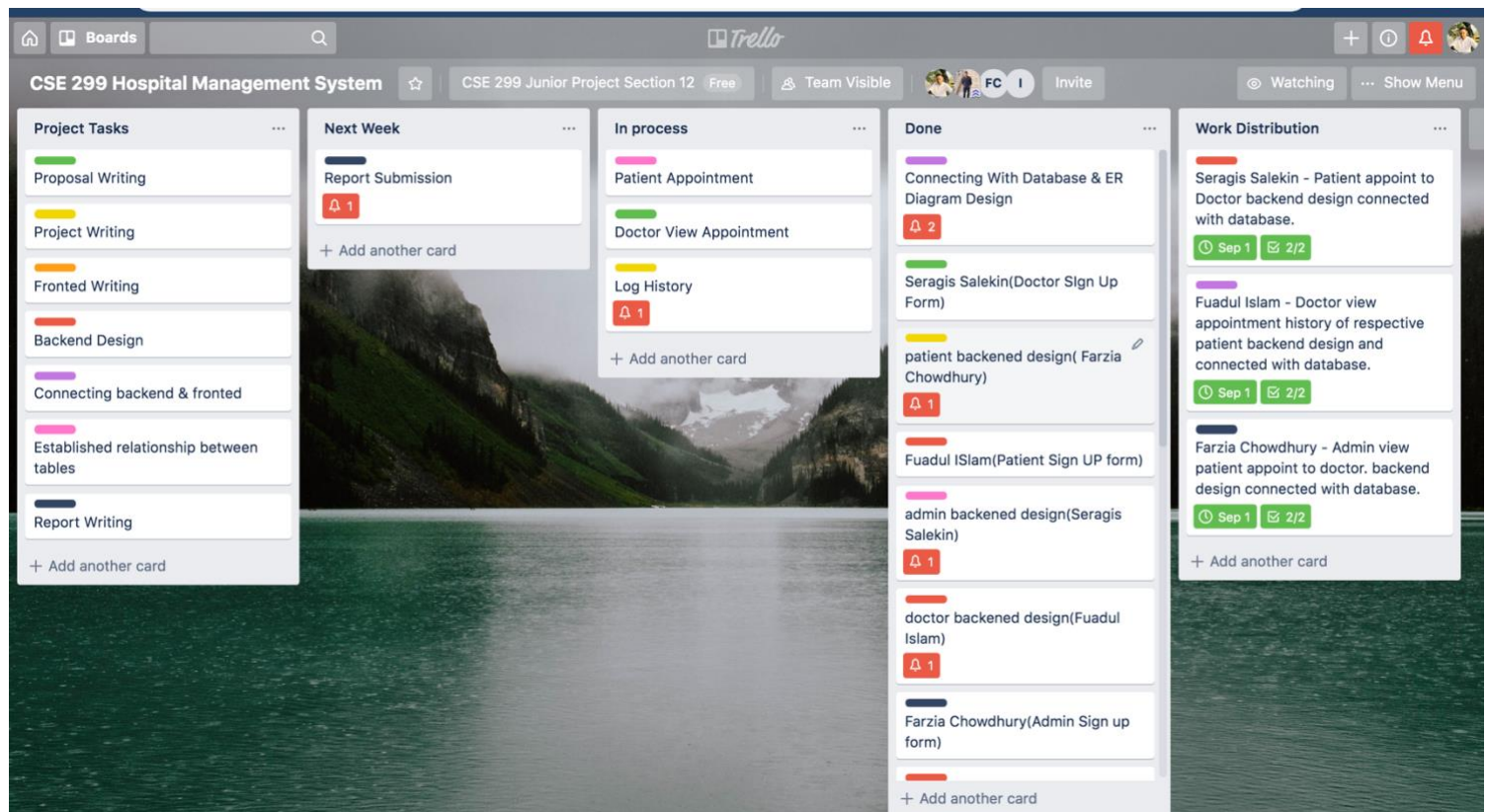
Figure: Database

The database has a lot of tables and other relations. Person's mobile number and ID is used as the primary key. As the mobile number and ID is supposed to be unique so there will not be any clash between any two people on the database.

MySQL workbench was used to design most part of the database. This tool has a very nice Graphical User Interface to help people build their databases.

A database management system (DBMS) is a computer software application that interacts with the user, other applications, and the database itself to capture and analyze data. A general-purpose DBMS is designed to allow the definition, creation, querying, update, and administration of databases. Well-known DBMSs include MySQL, PostgreSQL, MongoDB, Microsoft SQL Server, Oracle, Sybase, SAP HANA, and IBM DB2. A database is not generally portable across different DBMSs, but different DBMS can interoperate by using standards such as SQL and ODBC or JDBC to allow a single application to work with more than one DBMS. Database management systems are often classified according to the database model that they support; the most popular database systems since the 1980s have all supported the relational model as represented by the SQL language. Sometimes a DBMS is loosely referred to as a 'database'.

Trello Board:



Analysis:

Benefit for Doctors:

- ▶ They will be able to check appointment any time and work accordingly.
- ▶ They will have long history of their patients.
- ▶ Will not be dependent on patient for any information after the first visit.
- ▶ Reduce paper work and working time.

The doctor patient relationship that we know is going to change dramatically with this simple step. People will not be able to chat with a doctor as they can with their friends with many web applications and platforms but the distance between the will certainly come much shorter. While the medical ethics will be very important factor. The doctor–patient relationship is central to the practice of healthcare and is essential for the delivery of high-quality health care in the diagnosis and treatment of disease. The doctor–patient relationship forms one of the foundations of contemporary medical ethics. Most universities teach students from the beginning, even before they set foot in hospitals, to maintain a professional rapport with patients, uphold patients’ dignity, and respect their privacy.

Benefit for Patient:

- ▶ Can appoint to doctor.
- ▶ Will be able to perform activities from home.
- ▶ Can check their details, Can Update their profile details.

Importance:

A patient must have confidence in the competence of their physician and must feel that they can confide in him or her. For most physicians, the establishment of good rapport with a patient is important. Some medical specialties, such as psychiatry and family medicine, emphasize the physician–patient relationship more than others, such as pathology or radiology.

The quality of the patient–physician relationship is important to both parties. The better the relationship in terms of mutual respect, knowledge, trust, shared values and perspectives about disease and life, and time available, the better will be the amount and quality of information about the patient's disease transferred in both directions, enhancing accuracy of diagnosis and increasing the patient's knowledge about the disease. Where such a relationship is poor the physician's ability to make a full assessment is compromised and the patient is more likely to distrust the diagnosis and proposed treatment, causing decreased compliance to actually follow the medical advice. In these circumstances and also in cases where there is genuine divergence of medical opinions, a second opinion from another physician may be sought or the patient may choose to go to another physician. Additionally, the benefits of any placebo effect are also based upon the patient's subjective assessment (conscious or unconscious) of the physician's credibility.

In addition, a Canadian physician known as Sir William Osler strongly influenced the behavior of how a doctor should act during bedside with his or her patients. Osler was known as one of the "Big Four" professors at the time that the Johns Hopkins Hospital was first founded. At the Johns Hopkins Hospital, Osler had invented the clinical teaching system where he had taught medical

students how to act during bedside or how to tend to the care of the patients in different departments of the hospital.

Aspects of relationship:

The following aspects of the doctor–patient relationship are the subject of commentary and discussion.

Future Work :

A mobile application to make things easy and bring patient toward doctors.

Smart phones have become a part of our lives. They provide us thousands of assistive features and we have gladly become depended on this device. Smart phones are powered by many applications. Which are generally downloaded by users and some default applications preloaded by the company of that smartphone. An application that helps people to carry and check their complete medical record will give people more power. They will be able to check everything on the go while their ability to change or modify any data to make things up to date will always be there.

We're entering a new world of patient-centric healthcare, one in which patients can be better informed, collect endless data related to their condition, and more fully participate in medical decision making. Patients are now receiving full access to their digital personal medical records which helps in medical patient education about their condition. As a result of these changes, it's natural that patients will also want to use medical algorithms which until now had only been used by medical professionals. In any event, it will be almost impossible to exclude them from access.

Benefits to Patients Using Medical Algorithms:

There are potential benefits for the patient. Algorithms that collect tractable data can be valuable and are already being used for patients enrolled in clinical trials. When capturing data it is important that it be organized and used and not just simply collected as busy work. A program that analyzes and finds trends in the data is more valuable to clinicians and patients than volumes of raw data.

Algorithms can help to inform patients so that they can make better decisions and give informed consent. They can get a trusted second opinion in seconds or find out why they need to be treated. Algorithms can also give patients a higher level of comfort as they take charge of their own healthcare. Armed with more knowledge, they may also gain a sense of control that will help them better cope with illness.

Limitations:

Due to certain limitations all the user signup process will be done by the admin. Users will be restricted from creating multiple user accounts. This can be done by taking their email while registering. Failing to verify email will result in failed registration. This will help reducing unwanted pressure on the database and server.

There will be strict restriction for people while they sign up. Even for doctors they will not be able to sign up as patients.

Another important aspect is the privacy of people. People wants to have privacy and this idea is respected worldwide. Our privacy is also considered as a very fundamental human right. The availability of data does not mean that everyone will be able to see other people's data. Only registered physicians will be able to check certain data under strict conditions. If the conditions are not met then they will not be allowed to check the data on any user.

There is a plan for premium user with some charges.

Conclusion:

This was an excellent project to work on and We have learned a lot of things to complete this project. A lot of new idea and several problems that may happen to a system like this is quite clear for us now. We are not going to claim that this program offers you 100% functionality. It has mind blowing features but while working we have figured out how we can make this more beneficial for us. We have enjoyed this project and we want to keep working on it to give it a better shape. We believe that we can do make this different in a way that people will love the final output. Our creativity makes us different from every other species on this planet. We build tools and machines to make our lives easy and more comfortable. This has begun at a very early age and since then we have never stopped to build or design new things. Due to this creativity our planet has become very something totally different than our ancestors experienced. AI – artificial intelligence is an old concept but our current approach has taken it to a different height. We have been able to build things that has changed the entire thinking process of human civilization. Medical technology has also improved along with other sectors of science. Once people used to die of different diseases but we have overcome those by our advancement in various sectors. We are now able to perform surgery that people could not even think about a decade ago. Automation in medical sector is still quite new but the question is for how long this will remain new. Researches are advancing to perform diagnosis and prescribe medicine for people without a doctor. Of course there are doctors for supervisions. We are building intelligent tools to take things at a new height. This project is a tiny step towards the vast possibilities that science and computers can make to the medical sector. We have different approaches towards new things. Some people jump towards new things while others just sit back. This has been the case for human and it will continue. But new tools are coming every now and then. Science will keep on its journey and so will our human society. We are very proud to be a part of this work and very hopeful that someday this will be the reality of your hospital experience.

References:

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