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BELAGAVI-590018**



**A MINI PROJECT REPORT ON
REHABILITATION CENTER MANAGEMENT
SYSTEM**

**IN
COMPUTER SCIENCE &ENGINEERING**

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
CERTIFICATE

This is to certify that the Mini Project entitled **“REHABILITATION CENTER MANAGEMENT SYSTEM”** has been successfully completed by

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the bonafide students of **Department of Computer Science & Engineering, Alva's Institute of Engineering and Technology** in **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2019–2020. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the Bachelor of Engineering Degree.

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Declaration

We,

JAGATH HAREN
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hereby declare that the dissertation entitled, **REHABILITATION CENTER MANAGEMENT SYSTEM** is completed and written by us under the supervision of my guide **Mrs. Harshitha G M, Assistant Professor, Department of Computer Science and Engineering, Alva's Institute of Engineering And Technology, Moodbidri, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the academic year 2019-2020. The dissertation report is original and it has not been submitted for any other degree in any university.

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ABSTRACT

Substance addiction is a widely recognized problem that has affected a large audience. A rehabilitation center is a place where an individual undergoes treatment and recovers from this addiction. The rehabilitation center management system gives us the daily internal routine and services that take place in this center. The services like registration of an individual into the facility, scheduling and rescheduling of appointments and termination of the treatment process are provided. The project shows how the treatment process and the detoxification programs are scheduled together with the counseling and therapy sessions. Depending on the urgency and the severity of the condition of the individual, the detoxification programs' duration is determined. The schedules of narcotics meetings, personal and family counseling, group therapy have to be integrated seamlessly with the recovery process. This project gives us an insight into how the database is updated in order to meet the needs of the users.

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CHAPTER 1

INTRODUCTION

This chapter gives us the complete information about introduction, problem statement, proposed system, motivation and objectives of our project.

1.1 INTRODUCTION

The project Rehabilitation Center Management System includes registration of patients, booking of appointments into the system. The software has the facility to give a unique id for every patient and stores the details of every appointment automatically. The users can view their appointment history for their reference. The software includes a search and view facility to know the current status of each patient.

The Rehabilitation Center Management System is entered using a username and a password. The administrator or a receptionist are the only ones who are capable to add the details of the doctors and the counselors into the database. The users have to register before they can book an appointment. The data retrieval is made easy with the help of the user-friendly interface. The data are well protected for personal use and the system makes the data processing very fast.

1.2 PROBLEM STATEMENT

The issue with the current system is the irregularity in the appointment system and the inefficient management of time. The interaction between the patients are not taken into consideration in the present system and hence the proposed system is designed to curb these issues by providing a systematic solution to it.

1.3 MOTIVATION AND OBJECTIVES OF THE PROJECT

The motive behind the project is to develop an application which will dedicated for the purpose.

The main objective that to be achieved from this is as follows:

- Define Rehabilitation Center
- To keep the information of the user and patient.
- To keep the information of number of bookings.
- Keeping record of the medical history provided to patient.
- To keep information of cancellation and modification of bookings.

1.4 PROPOSED SOLUTION AND ADVANTAGES

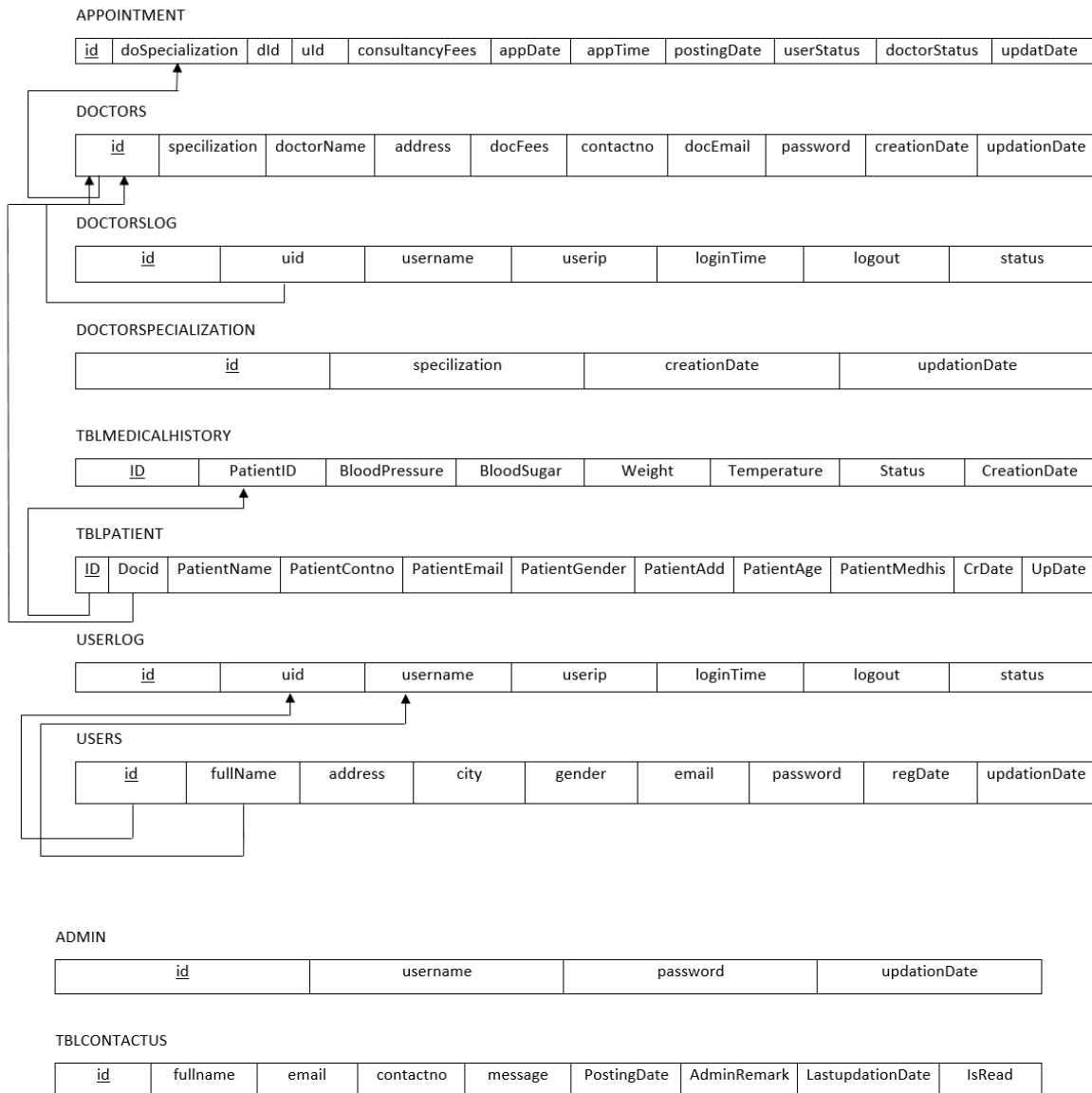
The proposed system is able to add users effectively into the system. The users are able to book appointments according to their convenience. This system is capable to maintaining several appointment records and the medical history of the patients. This system provides a cost-effective and efficient platform for information storage. And since it is digitized, it gives an enhanced sense of security.

CHAPTER 2

SYSTEM DESIGN

In this chapter the Schema and E-R Diagram of the project has been shown with description.

2.1 SCHEMA DIAGRAM



CHAPTER 3

IMPLEMENTATION

In this chapter the implementation details of the project have been specified.

3.1 HARDWARE SPECIFICATION

- 40 GB hard disk space.
- 2 GB RAM.
- Hi-Speed Network Connectivity.

3.2 SOFTWARE SPECIFICATION

- Windows(x64) Operating System.
- MySQL Server.
- Apache Server.
- Xampp.

3.2.1 LANGUAGE USED FOR IMPLEMENTATION

The language used for implementation are as follows:

- Front end: - PHP, HTML
- Back end: - MySQL

PHP

PHP is a server-side scripting language designed primarily for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Development Team. PHP originally stood for Personal Home Page, but it now stands for the recursive acronym.

PHP code may be embedded into HTML or HTML5 mark up, or it can be used in combination with various web template systems, web content management systems and web frameworks. PHP code is usually processed by a PHP interpreter implemented as a module in the web server or as a Common Gateway Interface (CGI) executable. The web server software combines the results of the interpreted and executed PHP code, which may be any type of data, including images, with the generated web page. PHP code may also be executed with a command-line interface (CLI) and can be used to implement standalone graphical.

HTML

Hypertext Mark-up Language (HTML) is the standard mark-up language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript it forms a triad of cornerstone technologies for the World Wide Web. Web browsers receive HTML documents from a web server or from local storage and render them into multimedia web pages.

MySQL

MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius daughter, and "SQL", the abbreviation for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation. For proprietary use, several paid editions are available, and offer additional functionality.

3.2.2 PLATFORM USED FOR IMPLEMENTATION

XAMPP

XAMPP is a free and open source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. XAMPP stands for Cross-Platform (X), Apache (A), MariaDB (M), PHP (P) and Perl (P). It is a simple, lightweight Apache distribution that makes it extremely easy for developers to create a local web server for testing and deployment purposes. Everything needed to set up a web server – server application (Apache), database (MariaDB), and scripting language (PHP) – is included in an extractable file. XAMPP is also cross-platform, which means it works equally well on Linux, Mac and Windows. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server extremely easy as well.

PhpMyAdmin

PhpMyAdmin is a free and open source administration tool for MySQL and MariaDB. As a portable web application written primarily in PHP, it has become one of the most popular MySQL administration tools, especially for web hosting services.

3.3 SQL COMMANDS AND QUERIES

The queries used for creating these tables are as follows:

- ADMIN

```
CREATE TABLE `admin` (  
  `id` int(11) NOT NULL,  
  `username` varchar(255) NOT NULL,
```

```
`password` varchar(255) NOT NULL,  
`updationDate` varchar(255) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

- APPOINTMENT

```
CREATE TABLE `appointment` (  
  `id` int(11) NOT NULL,  
  `doSpecialization` varchar(255) DEFAULT NULL,  
  `dId` int(11) DEFAULT NULL,  
  `uId` int(11) DEFAULT NULL,  
  `consultancyFees` int(11) DEFAULT NULL,  
  `appDate` varchar(255) DEFAULT NULL,  
  `appTime` varchar(255) DEFAULT NULL,  
  `postingDate` timestamp NULL DEFAULT current_timestamp(),  
  `userStatus` int(11) DEFAULT NULL,  
  `doctorStatus` int(11) DEFAULT NULL,  
  `updationDate` timestamp NULL DEFAULT NULL ON UPDATE  
  current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

- DOCTORS

```
CREATE TABLE `doctors` (  
  `id` int(11) NOT NULL,
```



```
`specilization` varchar(255) DEFAULT NULL,  
`doctorName` varchar(255) DEFAULT NULL,  
`address` longtext DEFAULT NULL,  
`docFees` varchar(255) DEFAULT NULL,  
`contactno` bigint(11) DEFAULT NULL,  
`docEmail` varchar(255) DEFAULT NULL,  
`password` varchar(255) DEFAULT NULL,  
`creationDate` timestamp NULL DEFAULT current_timestamp(),  
`updationDate` timestamp NULL DEFAULT NULL ON UPDATE  
current_timestamp()  
  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

- DOCTOR LOGIN

```
CREATE TABLE `doctorslog` (  
`id` int(11) NOT NULL,  
`uid` int(11) DEFAULT NULL,  
`username` varchar(255) DEFAULT NULL,  
`userip` binary(16) DEFAULT NULL,  
`loginTime` timestamp NULL DEFAULT current_timestamp(),  
`logout` varchar(255) DEFAULT NULL,  
`status` int(11) DEFAULT NULL  
  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

- DOCTOR SPECILIZATION

```
CREATE TABLE `doctorspecilization` (  
`id` int(11) NOT NULL,
```

```
`specilization` varchar(255) DEFAULT NULL,  
`creationDate` timestamp NULL DEFAULT current_timestamp(),  
`updationDate` timestamp NULL DEFAULT NULL ON UPDATE  
current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

- CONTACT US

```
CREATE REATE TABLE `tblcontactus` (  
  `id` int(11) NOT NULL,  
  `fullname` varchar(255) DEFAULT NULL,  
  `email` varchar(255) DEFAULT NULL,  
  `contactno` bigint(12) DEFAULT NULL,  
  `message` mediumtext DEFAULT NULL,  
  `PostingDate` timestamp NULL DEFAULT current_timestamp(),  
  `AdminRemark` mediumtext DEFAULT NULL,  
  `LastupdationDate` timestamp NULL DEFAULT NULL ON  
UPDATE current_timestamp(),  
  `IsRead` int(11) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

- MEDICAL HISTORY

```
C REATE TABLE `tblmedicalhistory` (  
  `ID` int(10) NOT NULL,  
  `PatientID` int(10) DEFAULT NULL,  
  `BloodPressure` varchar(200) DEFAULT NULL,  
  `BloodSugar` varchar(200) NOT NULL,  
  `Weight` varchar(100) DEFAULT NULL,  
  `Temperature` varchar(200) DEFAULT NULL,  
  `Status` mediumtext DEFAULT NULL,
```

```
`CreationDate` timestamp NOT NULL DEFAULT  
current_timestamp() ON UPDATE current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

- PATIENT

```
C REATE TABLE `tblpatient` (  
  `ID` int(10) NOT NULL,  
  `Docid` int(10) DEFAULT NULL,  
  `PatientName` varchar(200) DEFAULT NULL,  
  `PatientContno` bigint(10) DEFAULT NULL,  
  `PatientEmail` varchar(200) DEFAULT NULL,  
  `PatientGender` varchar(50) DEFAULT NULL,  
  `PatientAdd` mediumtext DEFAULT NULL,  
  `PatientAge` int(10) DEFAULT NULL,  
  `PatientMedhis` mediumtext DEFAULT NULL,  
  `CrDate` timestamp NULL DEFAULT current_timestamp(),  
  `UpDate` timestamp NULL DEFAULT NULL ON UPDATE  
current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

- USER LOGIN

```
REATE TABLE `userlog` (  
  `id` int(11) NOT NULL,  
  `uid` int(11) DEFAULT NULL,  
  `username` varchar(255) DEFAULT NULL,  
  `userip` binary(16) DEFAULT NULL,  
  `loginTime` timestamp NULL DEFAULT current_timestamp(),  
  `logout` varchar(255) DEFAULT NULL,  
  `status` int(11) DEFAULT NULL
```

```
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

- **USER**

```
CREATE TABLE `users` (  
  `id` int(11) NOT NULL,  
  `fullName` varchar(255) DEFAULT NULL,  
  `address` longtext DEFAULT NULL,  
  `city` varchar(255) DEFAULT NULL,  
  `gender` varchar(255) DEFAULT NULL,  
  `email` varchar(255) DEFAULT NULL,  
  `password` varchar(255) DEFAULT NULL,  
  `regDate` timestamp NULL DEFAULT current_timestamp(),  
  `updataionDate` timestamp NULL DEFAULT NULL ON UPDATE  
  current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

Trigger

```
-- Triggers `appointment`
```

```
--
```

```
DELIMITER $$
```

```
CREATE TRIGGER `trig` AFTER INSERT ON `appointment` FOR EACH ROW  
BEGIN
```

```
DECLARE date1 date;
```

```
DECLARE date2 date;
```

```
DECLARE id1 int;
```

```
set @date1:=(SELECT appointmentDate from appointment ORDER BY id DESC
LIMIT 1);

set @date2:=(SELECT PostingDate from appointment ORDER BY id DESC LIMIT
1);

set @id1:= (SELECT id FROM appointment ORDER BY id DESC limit 1);

if @date1<@date2 THEN

DELETE from appointment WHERE id=@id1;

END if;

END

$$

DELIMITER ;
```

Stored Procedure

```
DELIMITER $$

--

-- Procedures

--

CREATE DEFINER=`root`@`localhost` PROCEDURE `hist` (IN `did` INT(11))
NO SQL

select users.fullName as fname,appointment.* from appointment join users on
users.id=appointment.userId where appointment.doctorId=did$$

DELIMITER ;
```

3.3.1 OUTPUT TESTING

- Testing is the process of trying to discover every conceivable fault or weakness in a work product. Software system meets its requirements and user expectations and does not fail in an unacceptable manner.
- The system underwent validation testing to ensure the product under development is as per the user requirements. The proper submission of appointment date, viewing the medical history have been tested in this case.
- It has been tested to verify that the product being developed is according to design specifications. Seamless updation of medical history, and appointment cancellation have been tested here.

CHAPTER 4

RESULTS

4.1 SNAPSHOTS



Fig 4.1 Login page

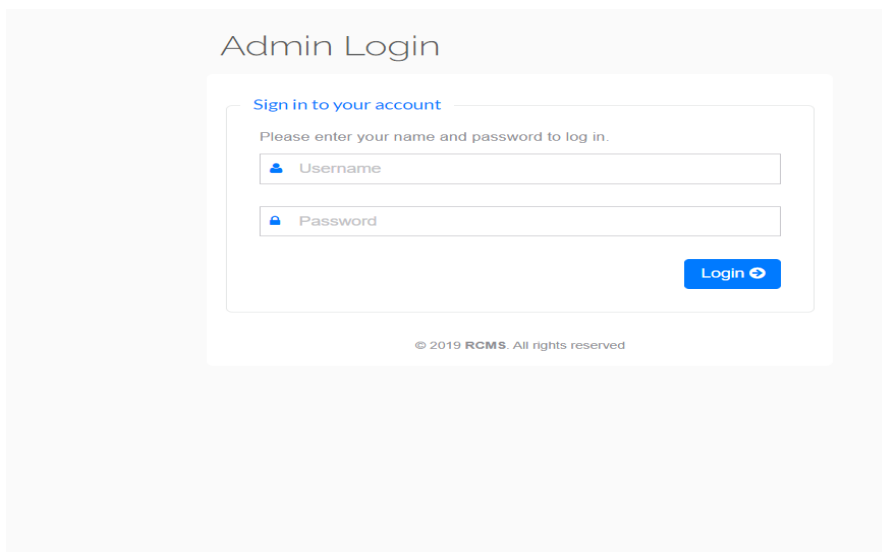


Fig 4.2 Admin login page

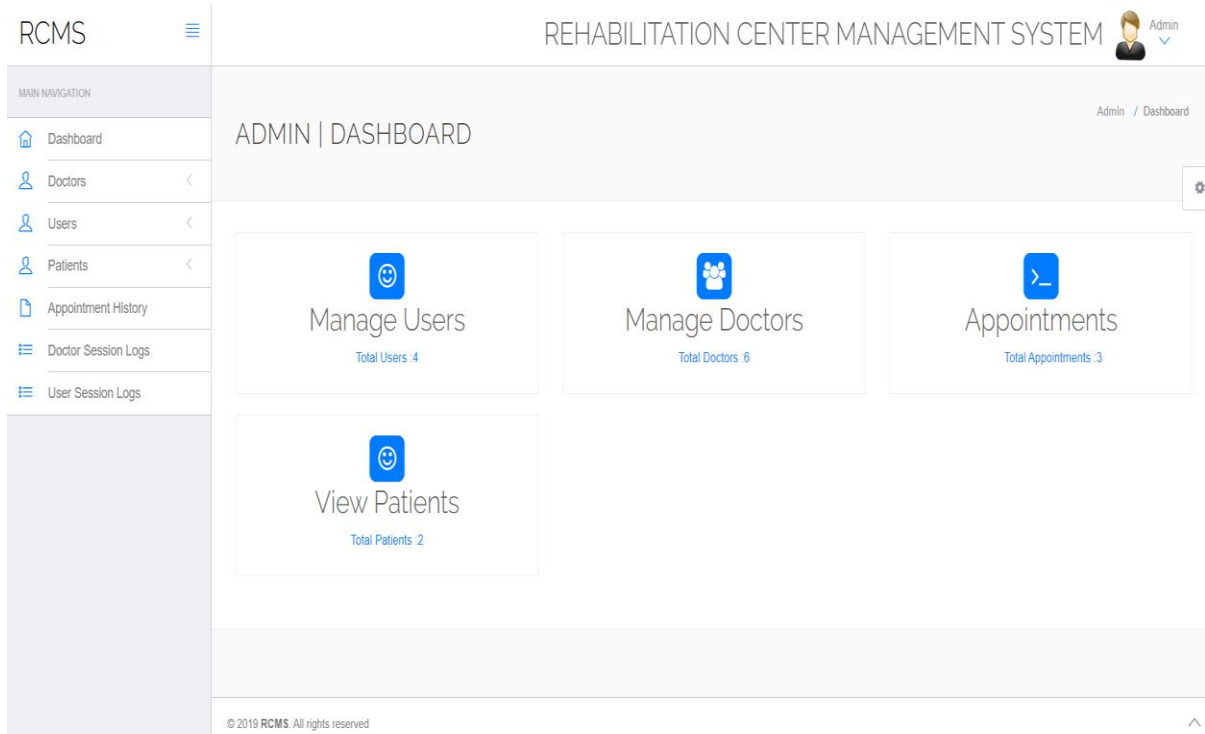


Fig 4.3 Admin dashboard

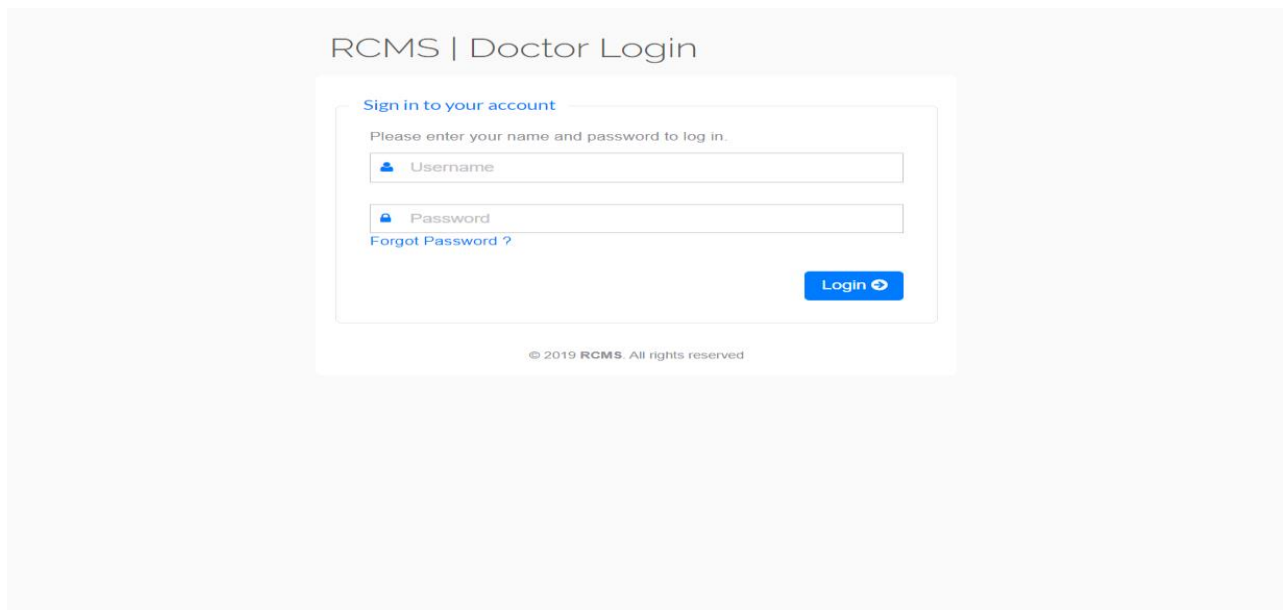


Fig 4.4 Doctor login page

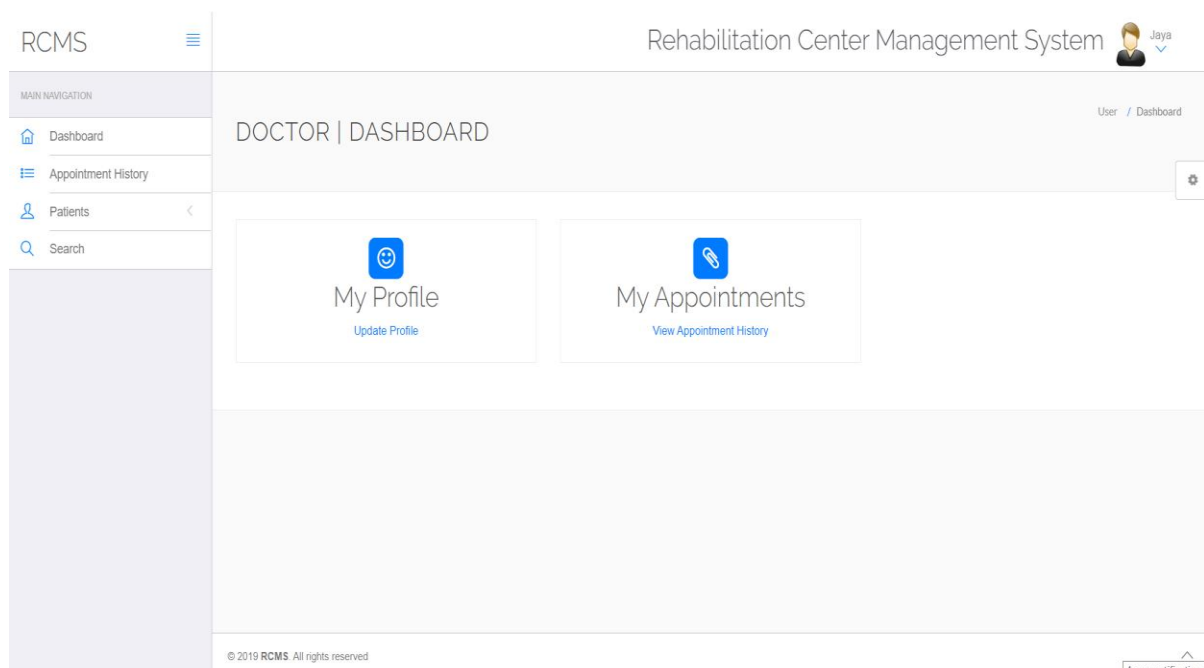


Fig 4.5 Doctor dashboard

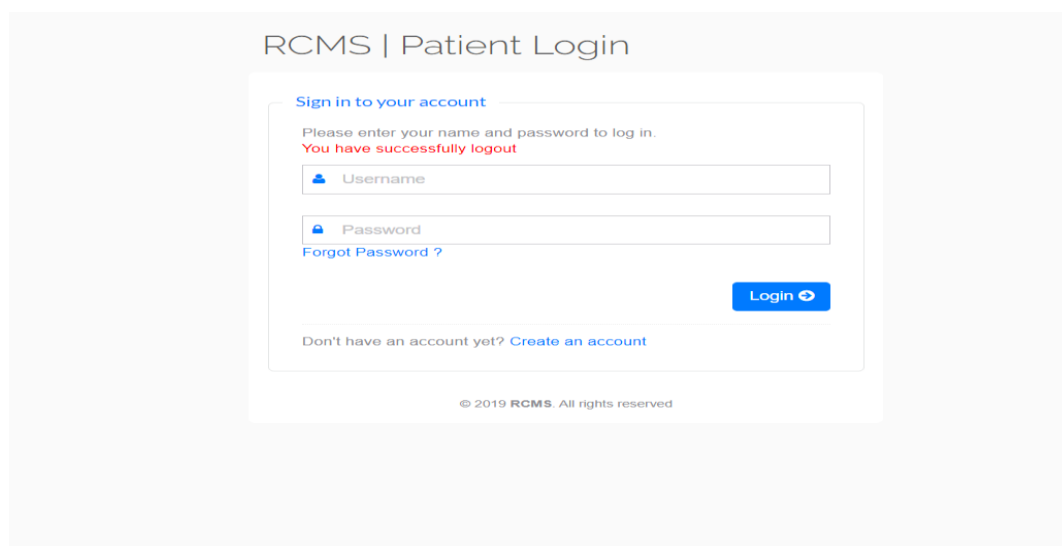


Fig 4.6 Patient login page

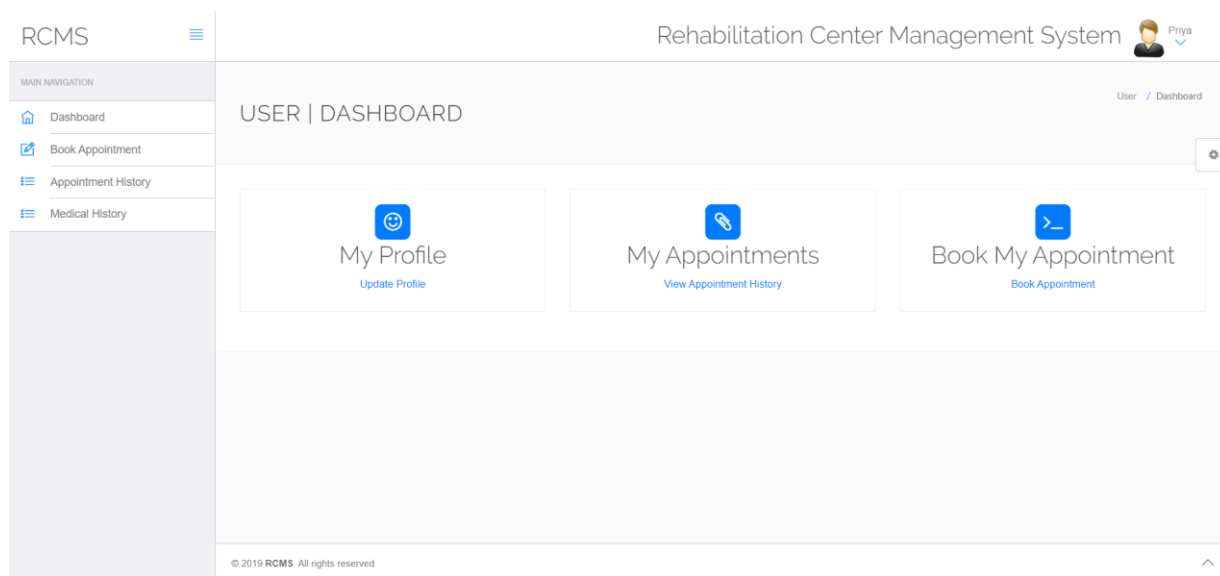


Fig 4.7 Patient dashboard

CHAPTER 5

CONCLUSION AND FUTURE ENHANCEMENT

In this chapter the project is concluded and its future enhancement has been specified.

5.1 CONCLUSION

The details of the patients are entered electronically in the “Rehabilitation Center Management System”, hence the data will be secured. Using this software, we can retrieve patient’s history with a single click. Thus processing information will be faster. It guarantees accurate maintenance of Patient details. It easily reduces the book keeping task and reduces the human effort and increases accuracy speed.

5.2 FUTURE ENHANCEMENT

- To add billing facility so we can enhance the payment facility by keeping online payment to speed up the online process.
- We will host the platform on online servers to make it accessible worldwide to meet the needs of the user.
- We can extend the software to produce a report stating the type of program the patient had underwent.