ONLINE MEDICAL APPOINTMENT BOOKING SYSTEM

A MINI-PROJECT REPORT

Submitted by

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in partial fulfilment for the course

CD19643 – WEB ESSENTIALS

for the degree of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE AND DESIGN

RAJALAKSHMI ENGINEERING COLLEGE

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MAY 2024

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BONAFIDE CERTIFICATE

Certified that this project report **"ONLINE MEDICAL APPOINTMENT BOOKING SYSTEM"** is the bonafidework of **" HAROON RASHEED N (211701019) KARTHIKEYAN V (211701022)"** who carried out the project work for the subject CD19643 – Web Essentials under my supervision.

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ACKNOWLEDGEMENT

Initially we thank the Almighty for being with us through every walk of our life and showering his blessings through the endeavour to put forth this report. Our sincere thanks to our Chairman **Mr.S.Meganathan, B.E, F.I.E.,** our Vice Chairman **Mr. Abhay Shankar Meganathan, B.E., M.S.,** and our respected Chairperson **Dr. (Mrs.) Thangam Meganathan, Ph.D.,** for providing us with the requisite infrastructure and sincere endeavouring in educating us in their premier institution.

Our sincere thanks to **Dr. S.N.Murugesan, M.E., Ph.D.,** our beloved Principal for his kind support and facilities provided to complete our work in time. We express our sincere thanks to our **Prof. Uma Maheshwar Rao** Associate Professor and Head of the Department of Computer Science and Design for his guidance and encouragement throughout the project work. We convey our sincere thanks to our internal guide and Project Coordinator, **Dr.N.Duraimurugan, M.Tech., PhD.,** Department of Computer Science and Engineering, Rajalakshmi Engineering College for his valuable guidance throughout the course of the project.

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ABSTRACT

The Online Medical Appointment Booking System is a web-based application that provides a convenient and efficient way for patients to book appointments with healthcare providers. The system uses modern web technologies such as HTML, CSS, and JavaScript for the frontend, and PHP and MySQL for the backend.

The system aims to address the challenges of traditional appointment booking methods, which often involve long wait times, limited availability of appointments, and manual scheduling processes. The proposed solution leverages modern technology to streamline the appointment booking process, improving patient satisfaction and overall healthcare delivery.

The system provides patients with an intuitive interface that allows them to search for healthcare providers based on specialty, availability etc. Once a suitable provider is identified, patients can select an available time slot from the provider's calendar and make a booking.

The system also benefits healthcare providers by providing a centralized platform for managing their appointments. Patients and healthcare providers are required to create accounts and provide personal information to use the system for security purpose.

The system is built on a scalable and flexible architecture, enabling it to handle a large number of users and accommodate future enhancements. In conclusion, the Online Medical Appointment Booking System is a web-based application that has the potential to transform the healthcare industry by improving the quality of care and reducing healthcare costs.

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CHAPTER 1

INTRODUCTION

1.1 INTRODUCTION

The online medical appointment booking system is a web application designed to simplify the process of booking medical appointments for patients. This system offers an easy-to-use platform that allows patients to schedule appointments with their preferred doctors at any time, from anywhere. The application includes features such as a doctor directory, appointment scheduling, making the process efficient and streamlined for both patients and medical professionals. By providing an online platform for medical appointment booking, this system offers a convenient and accessible solution for patients seeking medical care.

1.2 SCOPE OF THE WORK

The scope of work for the online medical appointment booking system web application project includes the development of a user-friendly interface for patients to book appointments with doctors. It also involves creating a database of doctors, their specialties, and their schedules. In future,the project requires integration with an email notification system to remind patients and doctors of upcoming appointments. Additionally, the system should allow for the secure storage of patient and doctor information, while ensuring compliance with relevant privacy regulations. Finally, the project includes designing an admin panel for doctors to manage appointments and view scheduling information.

1.3 PROBLEM STATEMENT

The current process of booking medical appointments can be time-consuming and inefficient, often requiring patients to make phone calls or visit clinics in person. This can lead to long wait times, missed appointments, and frustration for both patients and healthcare providers. Additionally, with the ongoing COVID-19 pandemic, there is a greater need for remote and online healthcare services. The online medical appointment booking system web application aims to address these challenges by providing a streamlined and accessible platform for patients to book appointments with their preferred doctors, anytime and from anywhere.

1.4 AIM AND OBJECTIVES OF THE PROJECT

The aim of the online medical appointment booking system web application project is to simplify the process of booking medical appointments for patients, while improving efficiency for healthcare providers. The objectives of the project include designing a user-friendly interface, creating a database of doctors and their schedules, ensuring secure storage of patient and doctor information. Through these objectives, the project seeks to provide a convenient and accessible solution for patients seeking medical care, while improving the overall efficiency and organization of healthcare scheduling.

CHAPTER 2

SYSTEM SPECIFICATIONS

2.1 HARDWARE SPECIFICATIONS

Processor	:	Intel i3
Memory Size	:	2GB (Minimum)
HDD	:	1 TB (Minimum)
Screen resolution	:	800 X 600

2.2 SOFTWARE SPECIFICATIONS

Operating System	:	WINDOWS 10
Front – End	:	HTML,CSS,JS
Back - End	:	PHP
Language	:	MYSQL

CHAPTER 3

MODULE DESCRIPTION

The online medical appointment booking system web application project can be broken down into several modules, each with its own set of CRUD operations:

1. User Management Module - This module allows users to register, login, and update their profile information. CRUD operations include creating a new user account, reading user profile information, updating user profile information, and deleting user accounts.

2. Doctor Management Module - This module enables the administrator to add, remove, and update doctors and their specialties. CRUD operations include creating a new doctor account, reading doctor profile information, updating doctor profile information, and deleting doctor accounts.

3. Appointment Management Module - This module allows patients to schedule and manage their appointments, and doctors to manage their appointment schedules. CRUD operations include creating a new appointment, reading appointment information, updating appointment information, and canceling appointments.

4. Notification Module - This module sends email notifications to patients and doctors regarding upcoming appointments. CRUD operations include creating new notifications, reading notification information, updating notification information, and deleting notifications.

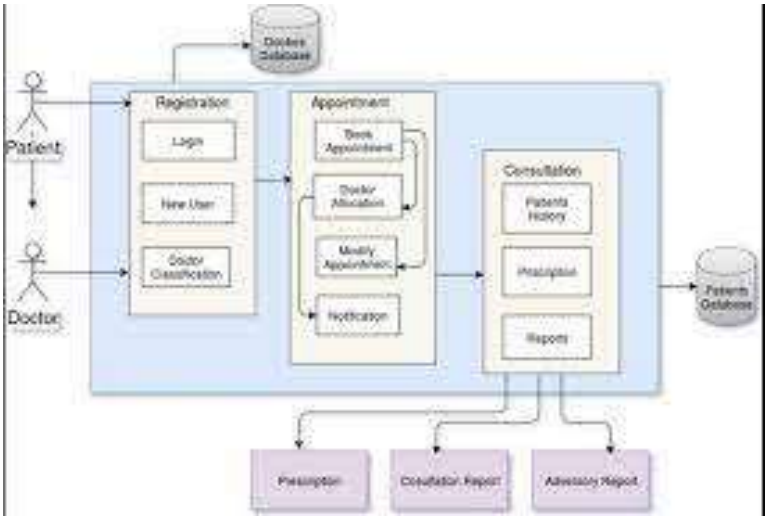
5. Payment Management Module - This module allows patients to make payments for appointments. CRUD operations include creating new payment information, reading payment information, updating payment information, and deleting payment information.

Overall, these modules and CRUD operations work together to create a comprehensive online medical appointment booking system that simplifies the process of booking appointments for both patients and healthcare providers.

CHAPTER 4

SYSTEM DESIGN

4.1 ARCHITECTURE DIAGRAM



The diagram describes the working of the system in a dynamic way. The movie details entered by the user are stored in a database for future reference and makes their watch better and easier.

CHAPTER 5

SAMPLE CODING

```
<?php

session_start();

error_reporting(0);

include('includes/dbconnection.php');

if (strlen($_SESSION['damsid']==0)) {

header('location:logout.php');

} else{

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title>DAMS || New Appointment Detail</title>

<link rel="stylesheet" href="libs/bower/font-awesome/css/font   awesome.min.css">

<link rel="stylesheet" href="libs/bower/material-design-
iconic   font/dist/css/material-design-iconic-font.css">

<!-- build:css assets/css/app.min.css -->

<link rel="stylesheet" href="libs/bower/animate.css/animate.min.css">

<link rel="stylesheet"

href="libs/bower/fullcalendar/dist/fullcalendar.min.css">

<link rel="stylesheet" href="libs/bower/perfect-scrollbar/css/perfect   scrollbar.css">
```

```
<link rel="stylesheet" href="assets/css/bootstrap.css">
<link rel="stylesheet" href="assets/css/core.css">
<link rel="stylesheet" href="assets/css/app.css">
<!-- endbuild -->
<link rel="stylesheet"
href="https://fonts.googleapis.com/css?family=Raleway:400,500,600,70
0,800,900,300">
<script
src="libs/bower/breakpoints.js/dist/breakpoints.min.js"></script>
<script>
Breakpoints();
</script>
</head>
<body class="menubar-left menubar-unfold menubar-light theme   primary">
<!--============= start main area -->
<?php include_once('includes/header.php');?>
<?php include_once('includes/sidebar.php');?>
<!-- DOM dataTable -->
<div class="col-md-12">
<div class="widget">
<header class="widget-header">
<h4 class="widget-title">New Appointment</h4>
```

```
</header><!-- .widget-header -->
<hr class="widget-separator">
<div class="widget-body">
<div class="table-responsive">
<table class="table table-bordered table-hover js-basic-example
dataTable table-custom">
<thead>
<tr>
<th>S.No</th>
<th>Appointment Number</th>
<th>Patient Name</th>
<th>Mobile Number</th>
<th>Email</th>
<th>Status</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<?php
$docid=$_SESSION['damsid'];
$sql="SELECT * from tblappointment where Status is null &&
Doctor=:docid";
```

```
$query = $dbh -> prepare($sql);

$query-> bindParam(':docid', $docid, PDO::PARAM_STR);

$query->execute();

$results=$query->fetchAll(PDO::FETCH_OBJ);

$cnt=1

<?php

// DB credentials.

define('DB_HOST','localhost');

define('DB_USER','root');

define('DB_PASS','');

define('DB_NAME','damsmsdb');

// Establish database connection.

try

{

$dbh = new
PDO("mysql:host=".DB_HOST.";dbname=".DB_NAME,DB_USER,
DB_PASS,array(PDO::MYSQL_ATTR_INIT_COMMAND => "SET
NAMES 'utf8'"));

}

catch (PDOException $e)

{

exit("Error: " . $e->getMessage());

}?>
```

CHAPTER 6

SCREEN SHOTS

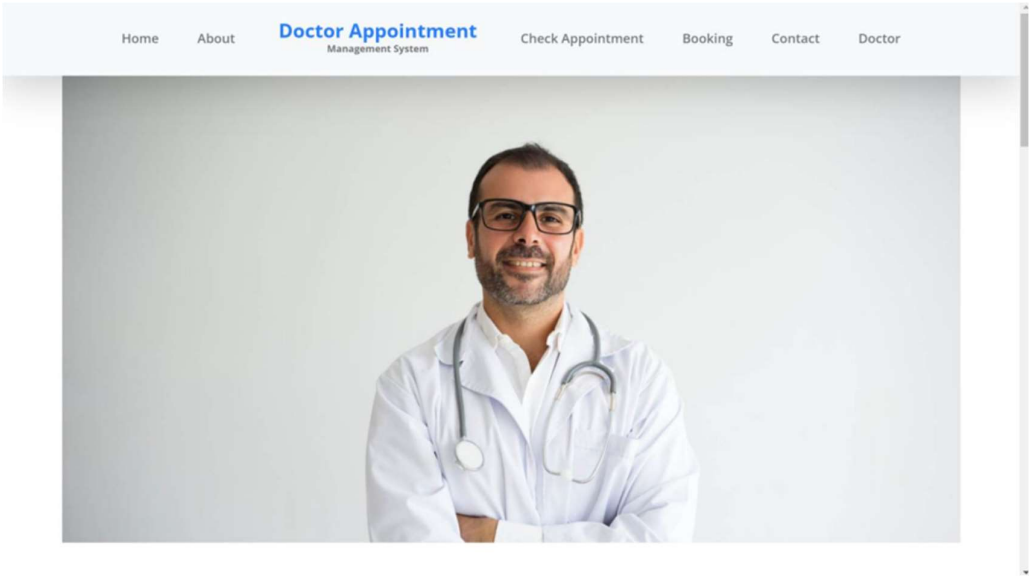


Fig 6.1 Landing Page

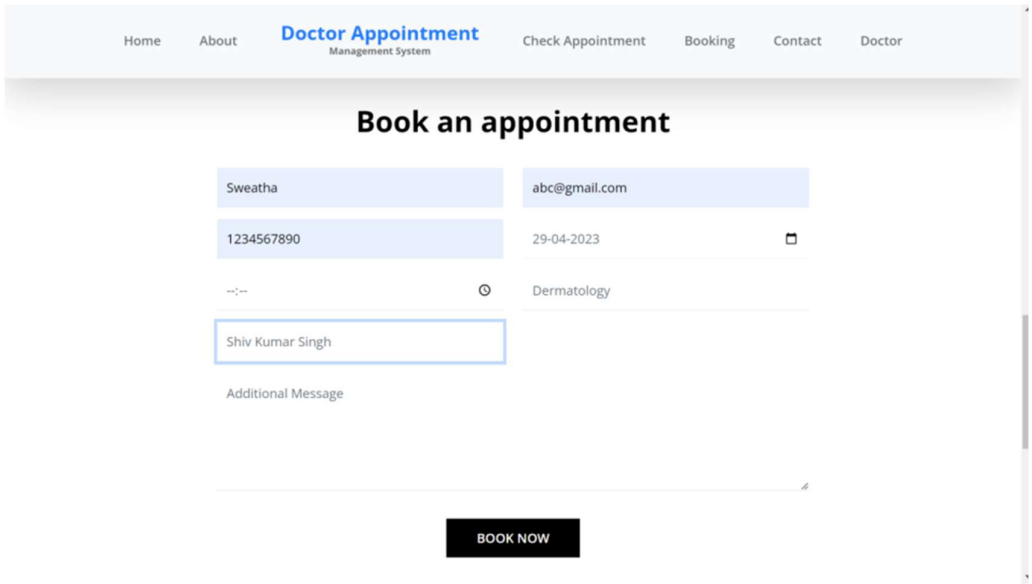


Fig 6.2 Appointment Booking

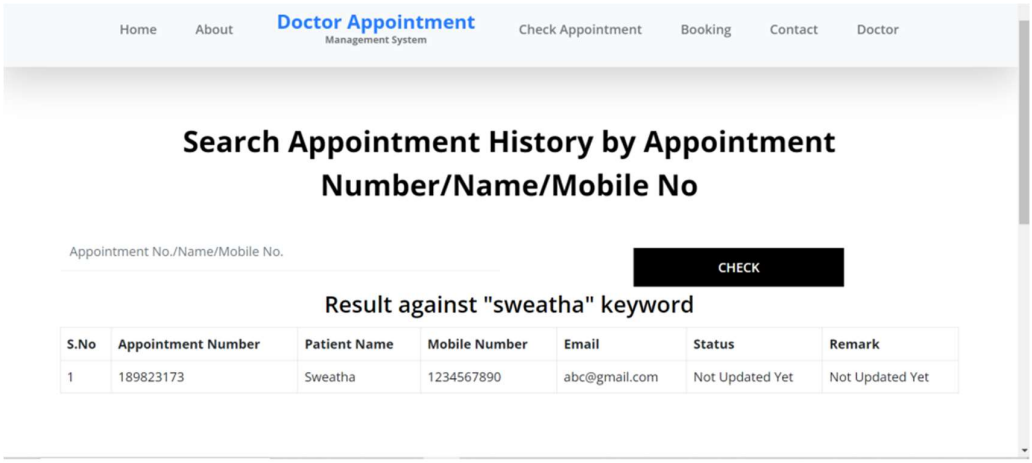


Fig 6.3 Appointment Searching

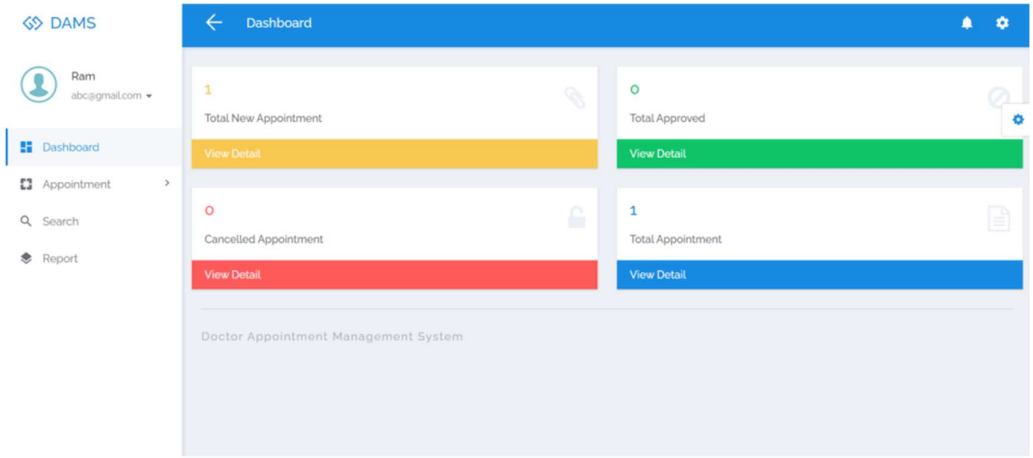


Fig 6.4 Dashboard of patients

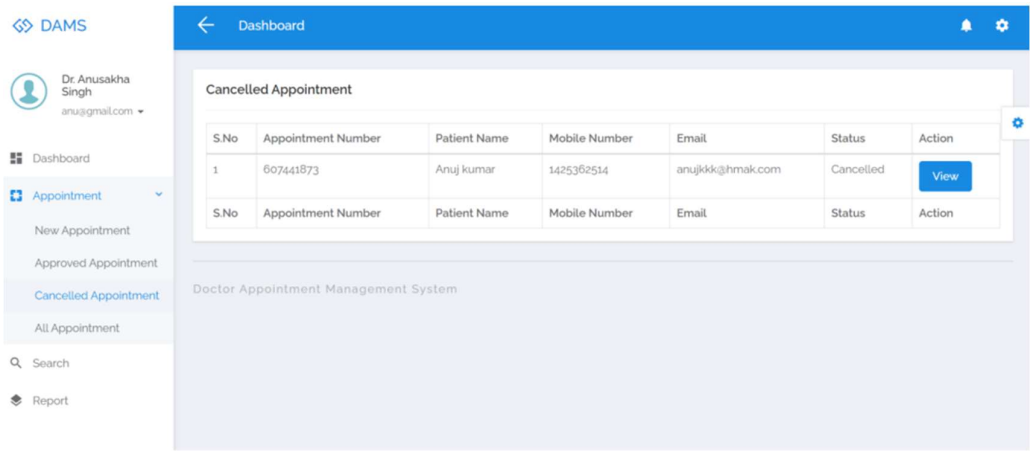


Fig 6.5 Dashboard of doctors

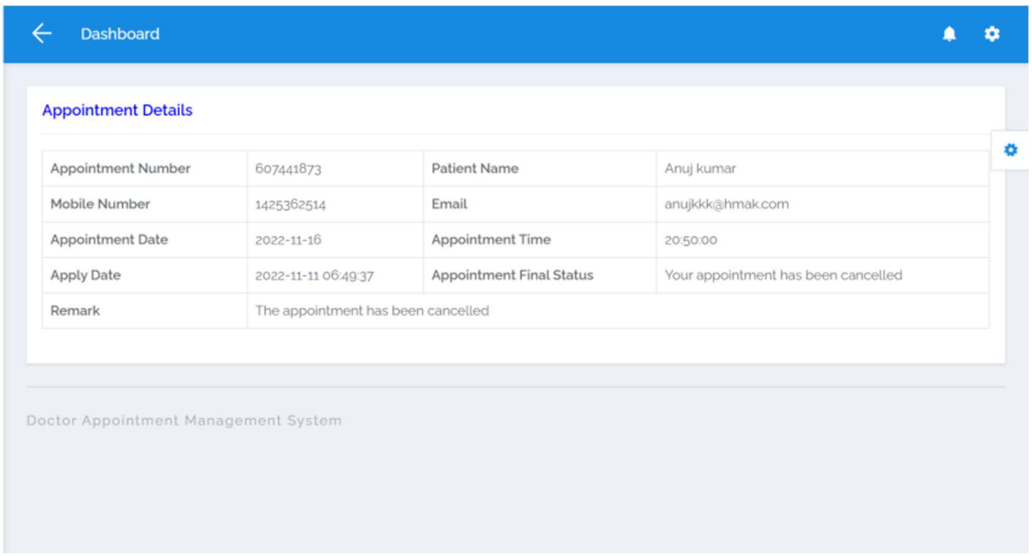


Fig 6.Appointment review

CHAPTER 7

CONCLUSION AND FUTURE ENHANCEMENT

In conclusion, online medical appointment booking systems have revolutionized the healthcare industry by providing patients with a convenient and efficient way to schedule appointments with their healthcare providers. Such systems have eliminated the need for patients to physically visit a medical facility or spend time on hold waiting for an available appointment slot. However, there are still several areas for improvement in these systems. For instance, some patients may require urgent care, and the current scheduling system may not be able to accommodate them.

Additionally, there is a need for more personalized features such as appointment reminders and real-time updates by utilizing text messaging, mobile applications, or other similar technologies. To address these issues, future enhancements could include the integration of artificial intelligence (AI) and machine learning (ML) algorithms to better predict patient demand, automate appointment scheduling, and optimize scheduling algorithms can significantly enhance these systems and provide patients with better healthcare experiences

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