

#### SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

#### CSE3002 - INTERNET AND WEB PROGRAMMING

## EMBEDDED THEORY, LAB & PROJECT

#### TITLE:

# **DENTAL CLINIC MANAGEMENT SYSTEM**

**FALL SEMESTER 2022-23** 

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DATE: 10-11-2022

#### **INTRODUCTION:**

The "Dental Clinic Management System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner. The programme is kept as simple as possible to reduce data entry errors. Additionally, it displays an error notice when you enter invalid data. The user doesn't require any formal training to use this system. This alone demonstrates how user-friendly it is. The management of doctor, dental clinic, test, booking, and appointment information is a challenge for every firm, regardless of size. We provide unique personnel management systems that are tailored to your managerial demands because every dental clinic management system has different dental clinic needs. This is intended to aid with strategic planning and will help you make sure that your company has the appropriate amount of knowledge and information for your future objectives. Additionally, our systems provide remote access features that will let us manage the workforce whenever, wherever needed. This is great for executives who are constantly on the go and are busy. In the end, these solutions will enable you to manage resources more effectively.

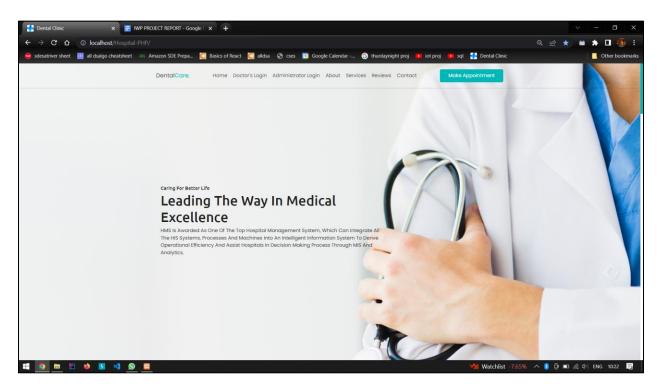
#### **SOFTWARE REQUIREMENTS:**

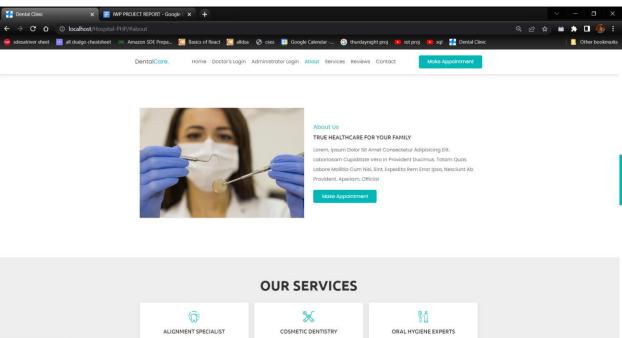
As soon as the analytical process is finished, the software requirements specification is produced. By providing a thorough description of the information, a thorough description of the function and behavior, an indication of performance requirements and design constraints, appropriate validation criteria, and other data pertinent to the requirement, the function and performance assigned to the software as part of system engineering are refined. The suggested system must meet the following standards:

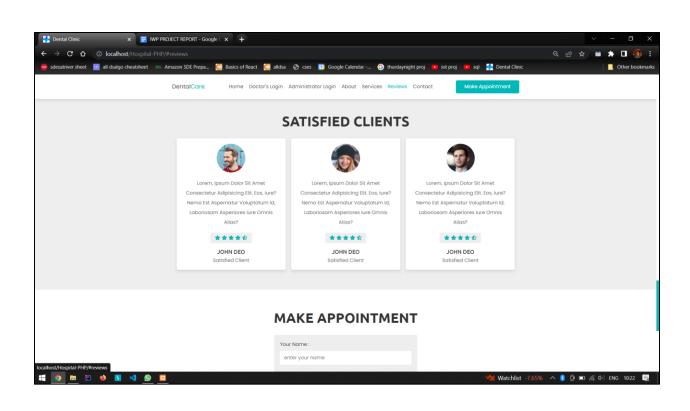
- Information concerning the dental clinic's new entry must be stored in the system.
- The technology is designed to make it easier for internal staff members to locate and track down doctors through various consultations.
- Quantity records must be maintained by the system.
- The patient's record must be kept current by the system.
- The record must be updated and removed by the system.
- Additionally, the system needs a lookup field.
- To protect data, the system will also require a security mechanism.

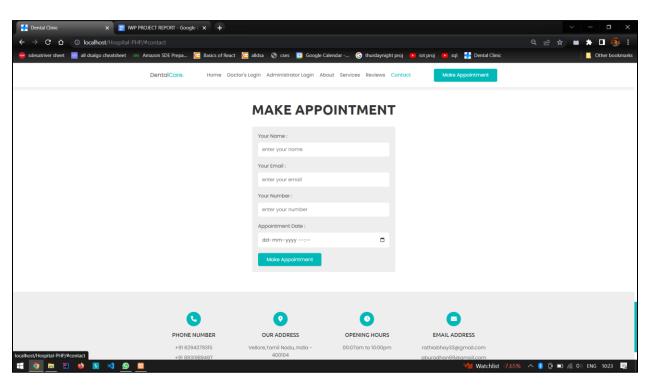
## **WEB LAYOUT OF THE PROJECT:**

## HOME PAGE:

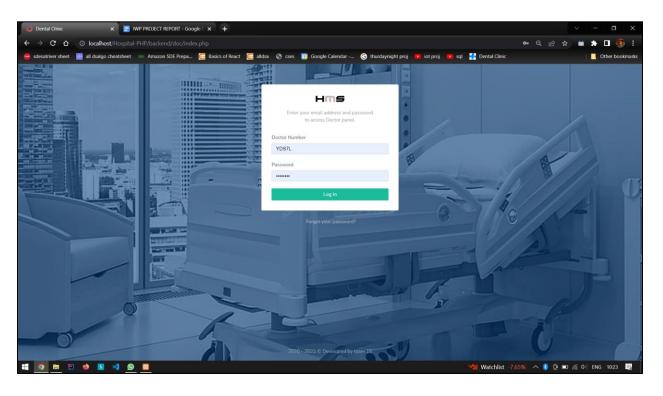


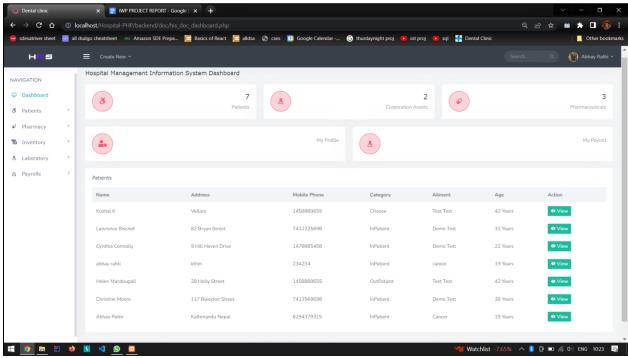


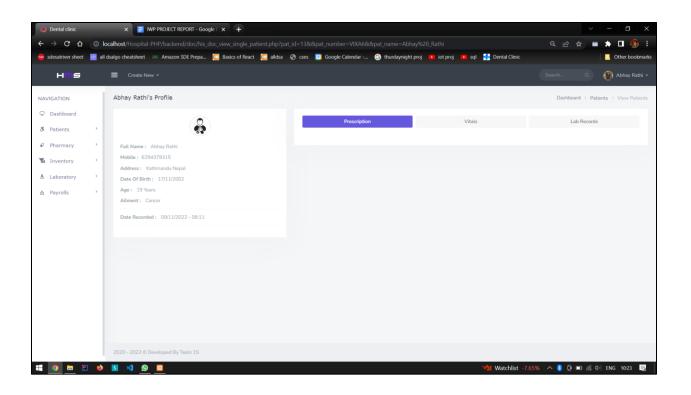


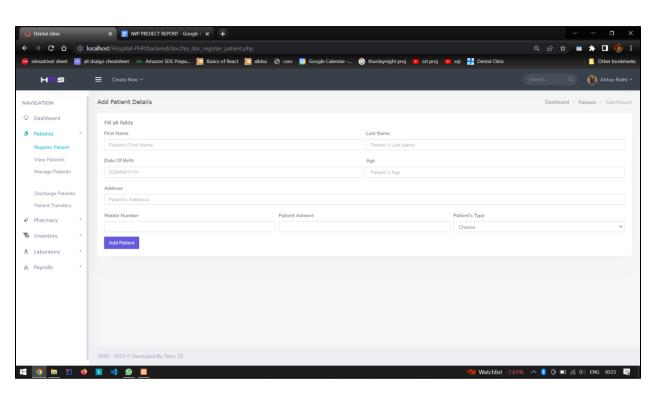


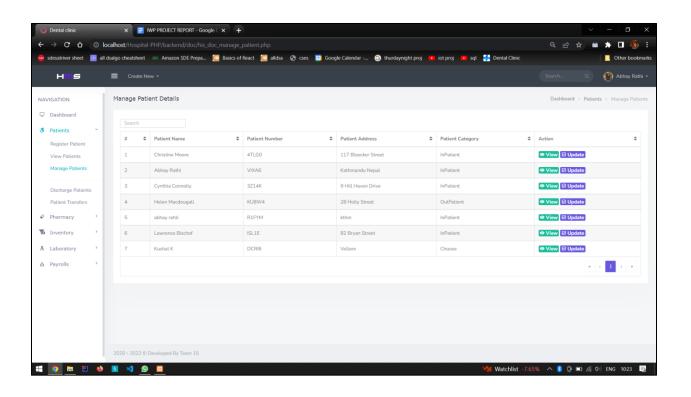
## **DOCTOR'S LOGIN**

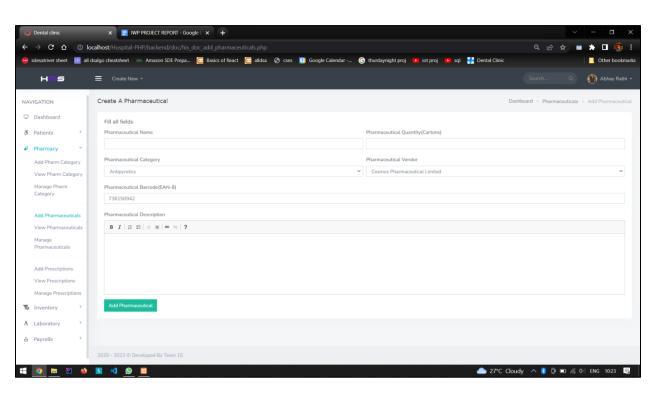


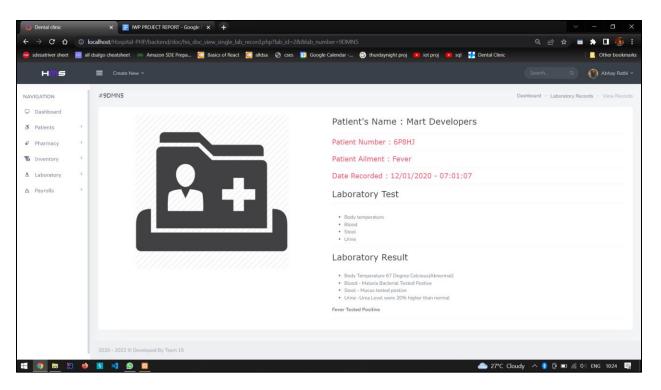


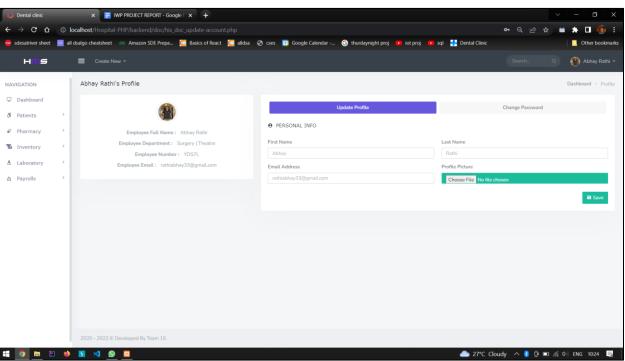




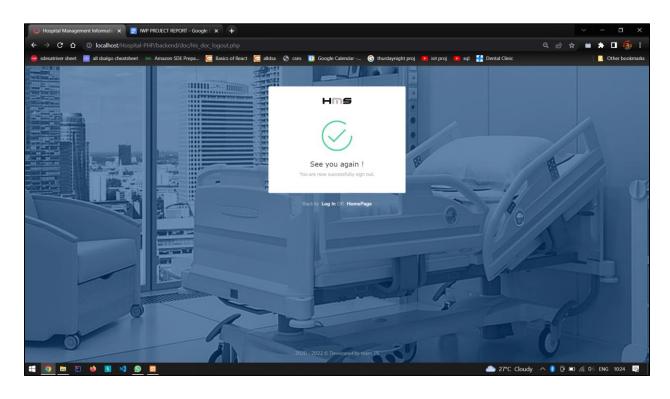


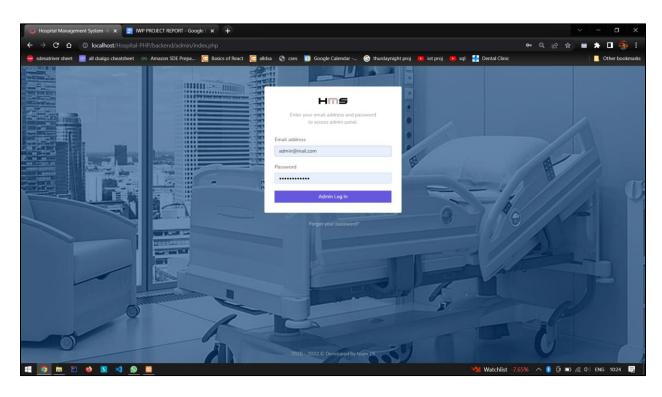


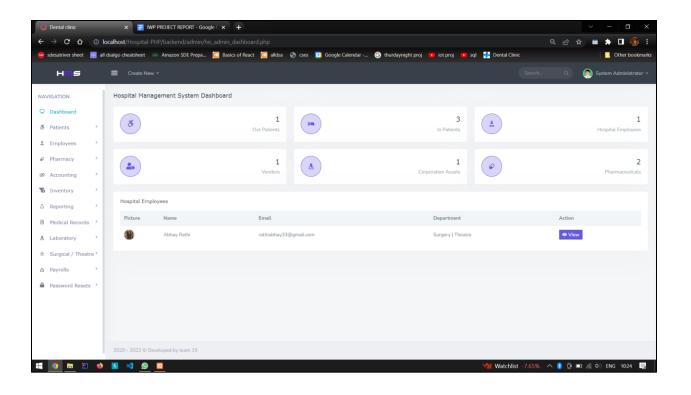


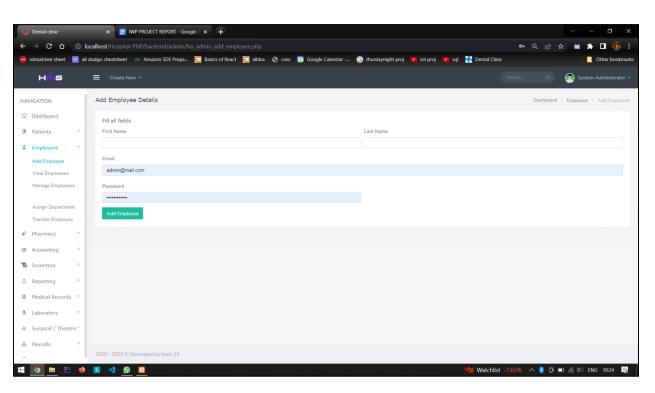


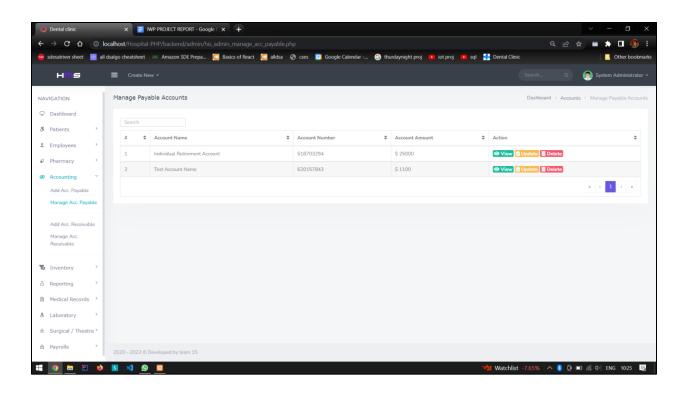
# ADMINISTRATOR'S LOGIN:

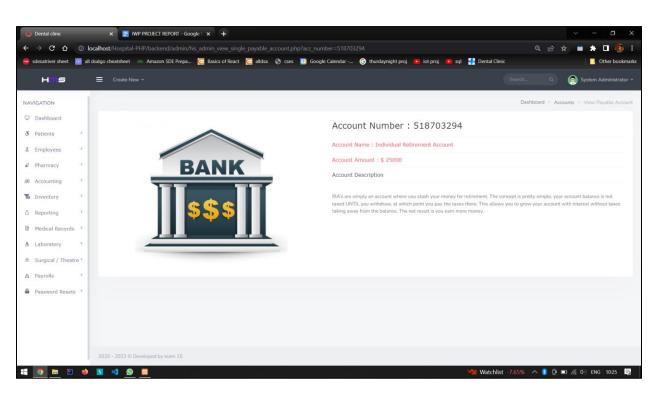


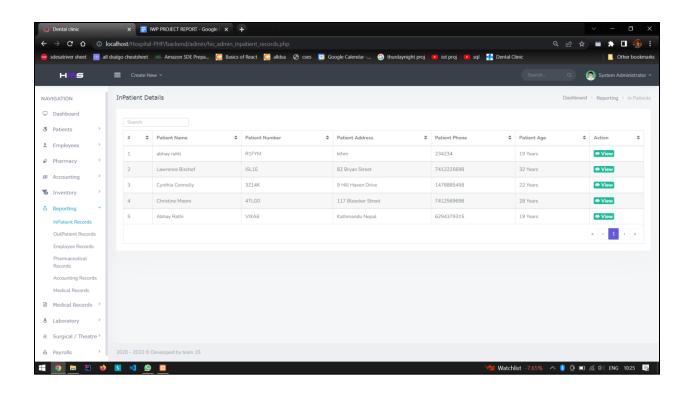


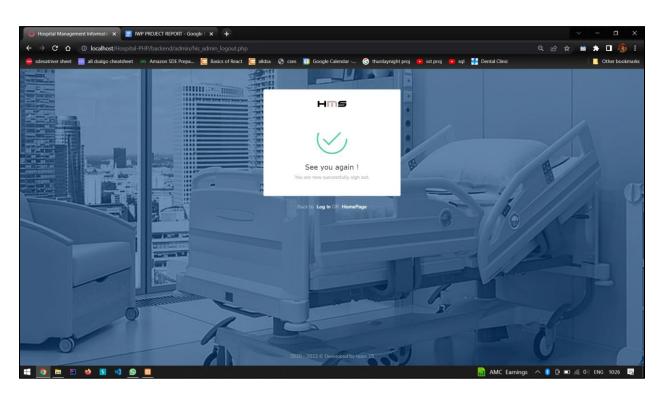




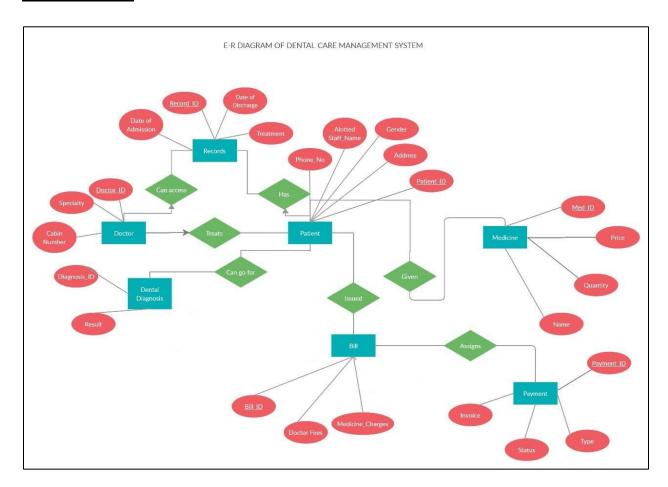








## **ER DIAGRAM:**



# **MODULES:**

We have used PHP and MYSQL and Bootstrap to create a Dental Clinic Management website. Using javascript, html, and CSS, we have created the layout. And NPM packages is used for all other components. Connect-flash, Cookie-parser, Dotenv, EJS, Express, Express-EJS-Layouts, Express-File Upload, Express-Session, MongoDB, and Mongoose are a few of them. For the backend, PHP and MySQL are used.

#### **CODING:**

Index.php

```
<?php
$conn = mysqli_connect('localhost','root',",'contact_db') or die('connection failed');
if(isset($_POST['submit'])){
 $name = mysqli_real_escape_string($conn, $_POST['name']);
 $email = mysqli_real_escape_string($conn, $_POST['email']);
 $number = $ POST['number'];
 det = POST['date'];
 $insert = mysqli_query($conn, "INSERT INTO `contact_form`(name, email, number, date)
VALUES('$name', '$email', '$number', '$date')") or die('query failed');
 if($insert){
   $message[] = 'appointment made successfully!';
  }else{
   $message[] = 'appointment failed';
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <!-- Required Meta Tags -->
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <!-- Page Title -->
  <title>Dental Clinic</title>
  <!-- Favicon -->
  k rel="shortcut icon" href="assets/images/logo/favicon.png" type="image/x-icon">
```

```
<!-- CSS Files -->
  k rel="stylesheet" href="assets/css/animate-3.7.0.css">
  k rel="stylesheet" href="assets/css/font-awesome-4.7.0.min.css">
  rel="stylesheet" href="assets/css/bootstrap-4.1.3.min.css">
  k rel="stylesheet" href="assets/css/owl-carousel.min.css">
  k rel="stylesheet" href="assets/css/jquery.datetimepicker.min.css">
  k rel="stylesheet" href="assets/css/linearicons.css">
  <link rel="stylesheet" href="assets/css/style.css">
  link
                  rel="stylesheet"
                                            href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.0.0/css/all.min.css">
 <!-- bootstrap cdn link -->
 link
                                                                           rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/4.6.1/css/bootstrap.min.css">
 <!-- custom css file link -->
 <link rel="stylesheet" href="css/style.css">
</head>
<body>
  <!-- Preloader Starts -->
  <div class="preloader">
    <div class="spinner"></div>
  </div>
  <!-- Preloader End -->
  <!-- Header Area Starts -->
  <header class="header-area">
    <div id="header" id="home">
      <div class="container">
         <div class="row align-items-center justify-content-between d-flex">
         <div id="logo">
           <a href="index.php"></a>
         </div>
         <nav id="nav-menu-container">
           <!-- <ul class="nav-menu">
             <a href="index.php">Home</a>
             <a href="backend/doc/index.php">Doctor's Login</a>
             <a href="backend/admin/index.php">Administrator Login</a>
           -->
```

```
</nav><!-- #nav-menu-container -->
         </div>
      </div>
    </div>
  </header>
  <!-- Header Area End -->
  <!-- Banner Area Starts -->
  <section class="banner-area">
    <div class="container">
      <div class="row">
         <div class="col-lg-8">
           <h4>Caring for better life</h4>
           <h1>Leading the way in medical excellence</h1>
           Our system is awarded as one of the Top Dental Management System, which can
integrate all the important systems, processes and machines into an intelligent information system
to derive operational efficiency and assist hospitals in decision making process through MIS and
Analytics.
         </div>
      </div>
    </div>
  </section>
  <header class="header fixed-top">
<div class="container">
 <div class="row align-items-center justify-content-between">
   <a href="#home" class="logo">dental<span>Care.</span></a>
   <nav class="nav">
    <a href="index.php">Home</a>
     <a href="backend/doc/index.php">Doctor's Login</a>
     <a href="backend/admin/index.php">Administrator Login</a>
     <a href="#about">about</a>
     <a href="#services">services</a>
     <a href="#reviews">reviews</a>
     <a href="#contact">contact</a>
   </nav>
```

```
<a href="#contact" class="link-btn">make appointment</a>
   <div id="menu-btn" class="fas fa-bars"></div>
 </div>
</div>
</header>
<!-- header section ends -->
<!-- home section starts -->
<section class="home" id="home">
<div class="container">
 <div class="row min-vh-100 align-items-center">
   <div class="content text-center text-md-left">
     <h3>let us brighten your smile</h3>
     Lorem ipsum dolor sit amet consectetur, adipisicing elit. Laudantium itaque, quasi
aliquam alias tempora voluptatibus.
     <a href="#contact" class="link-btn">make appointment</a>
   </div>
 </div>
</div>
</section>
<!-- home section ends -->
<!-- about section starts -->
<section class="about" id="about">
<div class="container">
```

```
<div class="row align-items-center">
   <div class="col-md-6 image">
     <img src="images/about-img.jpg" class="w-100 mb-5 mb-md-0" alt="">
   </div>
   <div class="col-md-6 content">
     <span>about us</span>
     <h3>True Healthcare For Your Family</h3>
     Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laboriosam cupiditate vero in
provident ducimus. Totam quas labore mollitia cum nisi, sint, expedita rem error ipsa, nesciunt ab
provident. Aperiam, officiis!
     <a href="#contact" class="link-btn">make appointment</a>
   </div>
 </div>
</div>
</section>
<!-- about section ends -->
<!-- services section starts -->
<section class="services" id="services">
<h1 class="heading">our services</h1>
<div class="box-container container">
 <div class="box">
   <img src="images/icon-1.svg" alt="">
   <h3>Alignment specialist</h3>
   Lorem ipsum dolor sit amet consectetur adipisicing elit. Fugiat, non?
 </div>
 <div class="box">
   <img src="images/icon-2.svg" alt="">
   <h3>Cosmetic dentistry</h3>
```

```
Lorem ipsum dolor sit amet consectetur adipisicing elit. Fugiat, non?
 </div>
 <div class="box">
   <img src="images/icon-3.svg" alt="">
   <h3>Oral hygiene experts</h3>
   Lorem ipsum dolor sit amet consectetur adipisicing elit. Esse, minima?
 </div>
 <div class="box">
   <img src="images/icon-4.svg" alt="">
   <h3>Root canal specialist</h3>
   Lorem ipsum dolor sit amet consectetur adipisicing elit. Esse, minima?
 </div>
 <div class="box">
   <img src="images/icon-5.svg" alt="">
   <h3>Live dental advisory</h3>
   Lorem ipsum dolor sit amet consectetur adipisicing elit. Esse, minima?
 </div>
 <div class="box">
   <img src="images/icon-6.svg" alt="">
   <h3>Cavity inspection</h3>
   Lorem ipsum dolor sit amet consectetur adipisicing elit. Esse, minima?
 </div>
</div>
</section>
<!-- services section ends -->
<!-- process section starts -->
<section class="process">
<h1 class="heading">work process</h1>
<div class="box-container container">
```

```
<div class="box">
   <img src="images/process-1.png" alt="">
   <h3>Cosmetic Dentistry</h3>
   Lorem ipsum dolor sit, amet consectetur adipisicing elit. Maxime, excepturi?
 </div>
 <div class="box">
   <img src="images/process-2.png" alt="">
   <h3>Pediatric Dentistry</h3>
   Lorem ipsum dolor sit, amet consectetur adipisicing elit. Maxime, excepturi?
 </div>
 <div class="box">
   <img src="images/process-3.png" alt="">
   <h3>Dental Implants</h3>
   Lorem ipsum dolor sit, amet consectetur adipisicing elit. Maxime, excepturi?
 </div>
</div>
</section>
<!-- process section ends -->
<!-- reviews section starts -->
<section class="reviews" id="reviews">
<h1 class="heading"> satisfied clients </h1>
<div class="box-container container">
 <div class="box">
   <img src="images/pic-1.png" alt="">
   Lorem, ipsum dolor sit amet consectetur adipisicing elit. Eos, iure? Nemo est aspernatur
voluptatum id, laboriosam asperiores iure omnis alias?
   <div class="stars">
     <i class="fas fa-star"></i>
     <i class="fas fa-star"></i>
```

```
<i class="fas fa-star"></i>
     <i class="fas fa-star"></i>
     <i class="fas fa-star-half-alt"></i>
   </div>
   <h3>john deo</h3>
   <span>satisfied client</span>
 </div>
 <div class="box">
   <img src="images/pic-2.png" alt="">
   Lorem, ipsum dolor sit amet consectetur adipisicing elit. Eos, iure? Nemo est aspernatur
voluptatum id, laboriosam asperiores iure omnis alias?
   <div class="stars">
     <i class="fas fa-star"></i>
     <i class="fas fa-star"></i>
     <i class="fas fa-star"></i>
     <i class="fas fa-star"></i>
     <i class="fas fa-star-half-alt"></i>
   </div>
   <h3>john deo</h3>
   <span>satisfied client</span>
 </div>
 <div class="box">
   <img src="images/pic-3.png" alt="">
   Lorem, ipsum dolor sit amet consectetur adipisicing elit. Eos, iure? Nemo est aspernatur
voluptatum id, laboriosam asperiores iure omnis alias?
   <div class="stars">
     <i class="fas fa-star"></i>
     <i class="fas fa-star"></i>
     <i class="fas fa-star"></i>
     <i class="fas fa-star"></i>
     <i class="fas fa-star-half-alt"></i>
   </div>
   <h3>john deo</h3>
   <span>satisfied client/span>
 </div>
</div>
```

```
</section>
<!-- reviews section ends -->
<!-- contact section starts -->
<section class="contact" id="contact">
<h1 class="heading">make appointment</h1>
<form action="<?php echo $_SERVER['PHP_SELF']; ?>" method="post">
 <?php
   if(isset($message)){
     foreach($message as $message){
      echo ''.$message.'';
 ?>
 <span>your name :</span>
 <input type="text" name="name" placeholder="enter your name" class="box" required>
 <span>your email :</span>
 <input type="email" name="email" placeholder="enter your email" class="box" required>
 <span>your number :</span>
 <input type="number" name="number" placeholder="enter your number" class="box"
required>
 <span>appointment date :</span>
 <input type="datetime-local" name="date" class="box" required>
 <input type="submit" value="make appointment" name="submit" class="link-btn">
</form>
</section>
<!-- contact section ends -->
<!-- footer section starts -->
<section class="footer">
<div class="box-container container">
```

```
<div class="box">
   <i class="fas fa-phone"></i>
   <h3>phone number</h3>
   +91 6294379315
   +91 8931989497
 </div>
 <div class="box">
   <i class="fas fa-map-marker-alt"></i>
  <h3>our address</h3>
   Vellore, Tamil Nadu, India - 400104
 </div>
 <div class="box">
   <i class="fas fa-clock"></i>
  <h3>opening hours</h3>
  00:07am to 10:00pm
 </div>
 <div class="box">
   <i class="fas fa-envelope"></i>
  <h3>email address</h3>
   rathiabhay33@gmail.com
   aburadhan69@gmail.com
 </div>
</div>
<div class="credit"> &copy; copyright @ <?php echo date('Y'); ?> by <span>TEAM 15</span>
</div>
</section>
<!-- footer section ends -->
```

## **REFERENCES:**

- https://www.tutorialspoint.com/
- <a href="https://www.geeksforgeeks.org/">https://www.geeksforgeeks.org/</a>
- https://www.w3schools.com/

We have taken inputs from some existing online health care management systems like CMC etc.