ONLINE PARKING SLOT BOOKING SYSTEM

An Internship report submitted in partial fulfillment of the requirement for the award of the degree of

BACHELOR OF TECHNOLOGY
in

COMPUTER SCIENCE AND ENGINEERING

Submitted by

Vandrasi Viswanath Govind Ajay (122010313045)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ENGINEERING AND TECHNOLOGY PROGRAM

GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Rushikonda, Visakhapatnam - 45

2020-2024

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Rushikonda, Visakhapatnam - 45

CERTIFICATE

This is to certify that the Internship report entitled "**Online Parking Slot Booking System**" being submitted by Vandrasi Viswanath Govind Ajay (122010313045) in the partial fulfillment for the award of the Degree of Bachelor of Technology in Computer Science and Engineering to the Gandhi Institute of Technology and Management, Visakhapatnam is a record of bonafied work carried out under my guidance and supervision.

External Examiner

VISION AND MISSION OF THE INSTITUTE

VISION

Creating Human Excellence for a Better Society

MISSION

Unfold into a World class organization with strong academic and research base, producing responsible citizens to cater to the changing needs of the society.

VISION AND MISSION OF THE DEPARTMENT

VISION

"Create and sustain as a Centre of excellence in Computer Science and Engineering and allied areas of research to pave the way for providing better technocrats to the society."

MISSION

"To provide strong *conceptual base (M1)* for acquiring programming skills, to develop high *computational innovative skills (M2)* and to empower *leadership qualities* with strong *ethical base (M3)"*

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Ability to develop hardware and software problem solving capabilities by inculcating strong fundamental, analytical, and communication skills.

PEO2: Ability to build confidence to address the challenges in their work and to apply innovative technical tools through interaction with professional bodies.

PEO3: Ability to gain sufficient depth of knowledge, Self-learning skills, technical skills and leadership qualities through participating in personality development activities, so as to sustain in multidisciplinary environment.

PEO4: To be able to respond to societal needs in professional and ethical concerns.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1: System Inception and Elaboration: Conceptualize the software and/or hardware systems, system components and processes/procedures through requirement analysis, Modelling /Design of the system using various architectural/design patterns, Standard Notations, procedures and algorithms.

PSO 2: System Construction: Implement the systems, Procedures and Processes using the state of the art technologies, standards, tools and Programming Paradigms.

PSO 3: System Testing and Deployment: Verify and Validate the Systems, Procedures and Processes using various testing and verification techniques and tools.

PSO 4: Quality and Maintenance: Manage the quality through various product development strategies under revision, transition and operation through maintainability, flexibility, testability, portability, reusability, interoperability, correctness, reliability, efficiency, integrity and usability to adapt the system to the changing structure and behavior of the systems/environments.

DECLARATION

We hereby declare that the Internship entitled **"Online Parking Slot Booking System"** submitted in partial fulfillment of the requirements for the award of Bachelor of Technology in Computer Science and Engineering, to Engineering and Technology Program, **GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT** . We assure that this Internship is not submitted in any other University or College.

Name & Signature of the Student

Vandrasi Viswanath Govind Ajay (122010313045)

ABSTRACT

As urbanization continues to increase, the demand for efficient parking solutions becomes more critical than ever. Traditional parking management systems often suffer from issues such as limited availability, long waiting times, and lack of transparency. In response, the emergence of online parking slot booking systems has revolutionized the way people find and reserve parking spaces. This abstract presents an overview of an online parking slot booking system designed to enhance convenience and efficiency in urban parking.

The online parking slot booking system leverages the power of technology and connectivity to provide users with a seamless parking experience. Through a web or mobile application, users can easily search for available parking spaces in their desired location, view real-time availability, and make instant bookings. The system incorporates features such as advanced search filters, proximity-based recommendations, and integrated payment gateways, streamlining the entire process and reducing the time and effort required to find parking.

For parking lot owners and operators, the online booking system offers numerous advantages. It enables them to efficiently manage their parking inventory, optimize space allocation, and maximize revenue. Through a centralized dashboard, administrators can monitor bookings, track occupancy rates, and generate insightful reports for data-driven decision-making. The system also facilitates seamless communication between users and parking lot staff, allowing for issue resolution, notifications, and updates in real-time.

Furthermore, the online parking slot booking system contributes to sustainable urban development. By minimizing the need for circling around in search of parking spaces, it reduces traffic congestion and carbon emissions. Additionally, the system can integrate with smart city initiatives, enabling data sharing with other urban infrastructure systems such as public transportation, traffic management, and navigation apps to provide a holistic urban mobility experience.

In conclusion, the online parking slot booking system represents a significant advancement in the field of urban parking management. By leveraging technology, it enhances convenience for users, optimizes space utilization for parking lot owners, and contributes to sustainable urban development. As cities continue to grow and face parking challenges, the adoption of such systems can lead to more efficient, seamless, and eco-friendly parking experiences for all stakeholders involved.

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1. INTRODUCTION

Web technologies play a crucial role in the development and functioning of modern websites and web applications. They encompass a wide range of technologies, protocols, and standards that enable the creation, communication, and presentation of content on the World Wide Web. This document provides an introduction to the fundamental concepts and technologies used in web development.

Client-Server Architecture:

At the core of web technologies is the client-server architecture. Web applications consist of two main components: the client, which runs on the user's device (e.g., web browser), and the server, which hosts the website or web application. The client sends requests to the server, which processes the requests and sends back the appropriate responses.

Hypertext Markup Language (HTML):

HTML is the standard markup language used to structure and present content on the web. It defines the elements and tags that define the structure of web pages, such as headings, paragraphs, links, images, and forms. HTML provides the foundation for creating the layout and visual elements of a web page.

Cascading Style Sheets (CSS):

CSS is a style sheet language that is used to describe the presentation and formatting of HTML documents. It allows web developers to control the layout, colors, fonts, and other visual aspects of a web page. CSS enables the separation of content and presentation, making it easier to maintain and update the design of a website.

JavaScript (JS):

JavaScript is a dynamic scripting language that adds interactivity and behavior to web pages. It runs on the client-side, allowing developers to manipulate the content, respond to user actions, and dynamically update the web page without reloading it. JavaScript is widely used for tasks such as form validation, interactive maps, animations, and AJAX-based communication with the server.

Server-side Technologies:

In addition to client-side technologies, web development often involves server-side technologies. These technologies handle the processing and management of data on the server. Common server-side languages include PHP, Python, Ruby, and Java. Server-side frameworks, such as Node.js, Django, Ruby on Rails, and ASP.NET, provide tools and libraries for building robust web applications.

Database Technologies:

Web applications often require data storage and retrieval. Database technologies, such as MySQL, PostgreSQL, MongoDB, and Oracle, are used to store and manage structured data. These databases allow developers to store, retrieve, update, and query data efficiently.

Web Services and APIs:

Web services and APIs (Application Programming Interfaces) enable communication and data exchange between different systems and applications. They allow developers to access and utilize functionalities and data from external sources. Common types of web services include RESTful APIs, SOAP APIs, and JSON-RPC.

Web Standards and Protocols:

Web technologies adhere to a set of standards and protocols that ensure compatibility and interoperability across different platforms and devices. Key standards include the HyperText Transfer Protocol (HTTP) for communication between clients and servers, the Extensible Markup Language (XML) for data representation, and the Web Content Accessibility Guidelines (WCAG) for ensuring accessibility to users with disabilities.

Responsive Web Design:

With the proliferation of mobile devices, responsive web design has become essential. It involves designing and developing websites that adapt and provide optimal user

experiences across various screen sizes and devices. CSS frameworks, such as Bootstrap and Foundation, assist in building responsive websites.

Web technologies form the foundation of the modern web, enabling the creation of dynamic, interactive, and accessible websites and applications. Understanding these technologies, such as HTML, CSS, JavaScript, server-side languages, databases, and web services, is crucial for developers to build robust and user-friendly web solutions. Continuous advancements in web

2.MODULES:

- User Login
- Admin Login
- Parking Availability

MODULES DESCSRIPTION:

- **User login:**

Users have to first register themselves to login into the system. In the registration of user page should be filled with the details of Name, Data of Birth, Email ID, Gender, Phone Number, Address and Password. After clicking sign up, the user registration will be made successful. With the details of registration made, the user login should be done. Checking the authorization, the user will be logged in to the system. After logging it, the user can able to see the Parking Cost, Book Parking, Your Booking details.

- **Admin Login:**

The system is under supervision of admin who manages the bookings made. Once after the admin logged it, the admin can see the parking cost, View User details and View Bookings. Only the admin has the privilege of modifying the parking cost. Also admin can view the user details. And also the admin can view the complete booking details with the cost etc.

- **Parking availability**

User can click on spaces to view the availability. If the space is already booked it will be marked yellow and the available ones will be seen in normal color. Parking booking online for date and time: Users can book parking space for their required date and time. User cannot select the slot if the booking is already done by some other earlier.

3. SOURCE CODE

Admin_login.java

```
package Parking_System;
```

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class Admin_login extends HttpServlet {

    protected void processRequest(HttpServletRequest request, HttpServletResponse
response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            String name = request.getParameter("name");
            String pass = request.getParameter("pass");
            System.out.println("========================================="
+name +pass);
            if (name.equalsIgnoreCase("admin") && pass.equalsIgnoreCase("admin")) {
                response.sendRedirect("Admin_Home.jsp?Success");
            } else {
                response.sendRedirect("Admin_login.jsp?Failed");
            }
        } catch (Exception ex) {
        }
    }

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        processRequest(request, response);
    }

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        processRequest(request, response);
    }
    @Override
    public String getServletInfo() {
        return "Short description";
    }}
```

User_register.java

```
package Parking_System;

import DBconnection.SQLconnection;
import java.io.IOException;
import java.io.PrintWriter;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class User_register extends HttpServlet {

   protected void processRequest(HttpServletRequest request, HttpServletResponse
response)
          throws ServletException, IOException {
       response.setContentType("text/html;charset=UTF-8");
       try (PrintWriter out = response.getWriter()) {
          String name = request.getParameter("username");
          String mail = request.getParameter("email");
          String dob = request.getParameter("dob");
          String gender = request.getParameter("gender");
          String phone = request.getParameter("phone");
          String address = request.getParameter("address");
          String pass = request.getParameter("pass");


          System.out.println("name" + name + "password" + pass + "address"+ address +
"mail" + mail + "dob" + dob + "cell" + phone);

          Connection conn = SQLconnection.getconnection();
          String message = null;

          try {
             Statement st = conn.createStatement();

             ResultSet rs = st.executeQuery("Select * from user_reg where email ='" +
mail + "'");
             if (rs.next()) {

                response.sendRedirect("User_login.jsp?msg=Mail_Id_Exists");
             } else {
```

```
            String sql = "insert into user_reg(name, email, dob, gender, phone, address,
password) values (?, ?, ?, ?, ?, ?, ?)";
            PreparedStatement statement = conn.prepareStatement(sql);
            statement.setString(1, name);
            statement.setString(2, mail);
            statement.setString(3, dob);
            statement.setString(4, gender);
            statement.setString(5, phone);
            statement.setString(6, address);
            statement.setString(7, pass);

            int row = statement.executeUpdate();
            if (row > 0) {

               response.sendRedirect("User_login.jsp?Register_Success");
            } else {
               response.sendRedirect("User_login.jsp?Register_Failed");
            }
         }
      } catch (SQLException ex) {
         ex.printStackTrace();
      }

   }
}

@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
   processRequest(request, response);
}
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
   processRequest(request, response);
}
@Override
public String getServletInfo() {
   return "Short description";
}}
```

SQLconnection.java

```
import java.sql.Connection;
import java.sql.DriverManager;
```

```
public class SQLconnection {

static Connection con;
   public static Connection getconnection() {
      try {
         Class.forName("com.mysql.jdbc.Driver");
         con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/parking_system", "root",
"root");
      } catch (Exception e) {
      }
      return con;
   }
}
```

Admin_Home.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE HTML>
<html>
   <head>
      <meta charset="utf-8">
      <meta http-equiv="X-UA-Compatible" content="IE=edge">
      <title>Online Parking Booking System</title>
      <meta name="viewport" content="width=device-width, initial-scale=1">
      <meta name="description" content="" />
      <meta name="keywords" content="" />
      <meta name="author" content="" />
      <!-- Facebook and Twitter integration -->
      <meta property="og:title" content=""/>
      <meta property="og:image" content=""/>
      <meta property="og:url" content=""/>
      <meta property="og:site_name" content=""/>
      <meta property="og:description" content=""/>
      <meta name="twitter:title" content="" />
      <meta name="twitter:image" content="" />
      <meta name="twitter:url" content="" />
      <meta name="twitter:card" content="" />

      <link rel="shortcut icon" href="favicon.ico">
      <link href="https://fonts.googleapis.com/css?family=Quicksand:300,400,500,700"
rel="stylesheet">
      <!-- Animate.css -->
```

```
    <link rel="stylesheet" href="css/animate.css">
    <!-- Icomoon Icon Fonts-->
    <link rel="stylesheet" href="css/icomoon.css">
    <!-- Bootstrap  -->
    <link rel="stylesheet" href="css/bootstrap.css">
    <!-- Flexslider  -->
    <link rel="stylesheet" href="css/flexslider.css">
    <!-- Flaticons  -->
    <link rel="stylesheet" href="fonts/flaticon/font/flaticon.css">
    <!-- Owl Carousel -->
    <link rel="stylesheet" href="css/owl.carousel.min.css">
    <link rel="stylesheet" href="css/owl.theme.default.min.css">
    <!-- Theme style  -->
    <link rel="stylesheet" href="css/style.css">
    <!-- Modernizr JS -->
    <script src="js/modernizr-2.6.2.min.js"></script>
</head>
<%
    if (request.getParameter("Success") != null) {
%>
<script>alert('Login Success');</script>
<%          }
%>
<body>
    <div id="colorlib-page">
        <a class="js-colorlib-nav-toggle colorlib-nav-toggle"><i></i></a>
        <aside id="colorlib-aside" role="complementary" class="border js-fullheight">
            <h1 id="colorlib-logo"></h1>
            <nav id="colorlib-main-menu" role="navigation">
                <ul>
                    <li class="colorlib-active"><a href="Admin_Home.jsp">Home</a></li>
                    <li><a href="parking_cost.jsp">Parking Cost</a></li>
                    <li><a href="user_details.jsp">User Details</a></li>
                    <li><a href="view_bookings.jsp">View Bookings</a></li>
                    <li><a href="index.html">Logout</a></li>
                </ul>
            </nav>
        </aside>
        <div id="colorlib-main">
            <aside id="colorlib-hero" class="js-fullheight">
                <div class="flexslider js-fullheight">
                    <ul class="slides">
                        <li style="background-image: url(images/img1.jpg);">
                            <div class="overlay"></div>
                            <div class="container-fluid">
                                <div class="row">
```

```
                        <div class="col-md-12">
                            <div class="mu-page-header-area">
                                <h2 class="mu-page-header-title">Online Parking
Booking System</h2>
                            </div>
                        </div>
                    </div>
                </li>
                <li style="background-image: url(images/img2.jpg);">
                    <div class="overlay"></div>
                    <div class="container-fluid">
                        <div class="row">
                            <div class="col-md-12">
                                <div class="mu-page-header-area">
                                    <h2 class="mu-page-header-title">Online Parking
Booking System</h2>
                                </div>
                            </div>
                        </div>
                    </div>
                </li>
                <li style="background-image: url(images/img3.jpg);">
                    <div class="overlay"></div>
                    <div class="container-fluid">
                        <div class="row">
                            <div class="col-md-12">
                                <div class="mu-page-header-area">
                                    <h2 class="mu-page-header-title">Online Parking
Booking System</h2>
                                </div>
                            </div>
                        </div>
                    </div>
                </li>
            </ul>
        </div>
    </aside>
</div>
</div>
<!-- jQuery -->
<script src="js/jquery.min.js"></script>
<!-- jQuery Easing -->
<script src="js/jquery.easing.1.3.js"></script>
<!-- Bootstrap -->
<script src="js/bootstrap.min.js"></script>
```

```
        <!-- Waypoints -->
        <script src="js/jquery.waypoints.min.js"></script>
        <!-- Flexslider -->
        <script src="js/jquery.flexslider-min.js"></script>
        <!-- Sticky Kit -->
        <script src="js/sticky-kit.min.js"></script>
        <!-- Owl carousel -->
        <script src="js/owl.carousel.min.js"></script>
        <!-- Counters -->
        <script src="js/jquery.countTo.js"></script>
        <!-- MAIN JS -->
        <script src="js/main.js"></script>
    </body>
</html>
```

Admin_login.jsp

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE HTML>
<html>
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <title>Online Parking Booking System</title>
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <meta name="description" content="" />
        <meta name="keywords" content="" />
        <meta name="author" content="" />
        <!-- Facebook and Twitter integration -->
        <meta property="og:title" content=""/>
        <meta property="og:image" content=""/>
        <meta property="og:url" content=""/>
        <meta property="og:site_name" content=""/>
        <meta property="og:description" content=""/>
        <meta name="twitter:title" content="" />
        <meta name="twitter:image" content="" />
        <meta name="twitter:url" content="" />
        <meta name="twitter:card" content="" />

        <link rel="shortcut icon" href="favicon.ico">
```

```
        <link href="https://fonts.googleapis.com/css?family=Quicksand:300,400,500,700"
rel="stylesheet">
        <!-- Animate.css -->
        <link rel="stylesheet" href="css/animate.css">
        <!-- Icomoon Icon Fonts-->
        <link rel="stylesheet" href="css/icomoon.css">
        <!-- Bootstrap  -->
        <link rel="stylesheet" href="css/bootstrap.css">
        <!-- Flexslider  -->
        <link rel="stylesheet" href="css/flexslider.css">
        <!-- Flaticons  -->
        <link rel="stylesheet" href="fonts/flaticon/font/flaticon.css">
        <!-- Owl Carousel -->
        <link rel="stylesheet" href="css/owl.carousel.min.css">
        <link rel="stylesheet" href="css/owl.theme.default.min.css">
        <!-- Theme style  -->
        <link rel="stylesheet" href="css/style.css">
        <!-- Modernizr JS -->
        <script src="js/modernizr-2.6.2.min.js"></script>
    </head>
    <%
        if (request.getParameter("Failed") != null) {
    %>
    <script>alert('Login Failed');</script>
    <%          }
    %>
    <body>
        <div id="colorlib-page">
            <a class="js-colorlib-nav-toggle colorlib-nav-toggle"><i></i></a>
            <aside id="colorlib-aside" role="complementary" class="border js-fullheight">
                <h1 id="colorlib-logo"></h1>
                <nav id="colorlib-main-menu" role="navigation">
                    <ul>
                        <li><a href="index.html">Home</a></li>
                        <li><a href="User_login.jsp">User</a></li>
                        <li class="colorlib-active"><a href="Admin_login.jsp">Admin</a></li>
                    </ul>
                </nav>
            </aside>
            <div id="colorlib-main">
                <div class="colorlib-contact">
                    <div class="colorlib-narrow-content">
                        <div class="row">
                            <div class="col-md-12 animate-box" data-animate-
effect="fadeInLeft">
```

```
                    <h2 class="colorlib-heading">Online parking Booking
System</h2>
                </div>
            </div>
            <div class="row">
                <center><h2>Admin Login</h2></center>
                <br><br>
                <div class="col-md-5">
                    <img src="images/userlogin.jpg" width="400" height="400" />
                </div>
                <div class="col-md-7 col-md-push-1">
                    <div class="row">
                        <div class="col-md-10 col-md-offset-1 col-md-pull-1 animate-
box" data-animate-effect="fadeInLeft">
                            <form  action="admin" method="post">
                                <div class="form-group">
                                      <label>Email ID :</label>
                                    <input type="text" class="form-control" name="name"
placeholder="Enter Your Email ID" required="required">
                                </div>
                                <div class="form-group">
                                      <label>Password :</label>
                                    <input type="password" class="form-control"
name="pass" placeholder="Enter Your Password" required="required"><br>
                                </div>
                                <div class="form-group">
                                    <button type="submit" class="btn btn-success btn-
md">Login</button>
                                </div>
                            </form>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
    <!-- jQuery -->
    <script src="js/jquery.min.js"></script>
    <!-- jQuery Easing -->
    <script src="js/jquery.easing.1.3.js"></script>
    <!-- Bootstrap -->
    <script src="js/bootstrap.min.js"></script>
    <!-- Waypoints -->
    <script src="js/jquery.waypoints.min.js"></script>
```

```
        <!-- Flexslider -->
        <script src="js/jquery.flexslider-min.js"></script>
        <!-- Sticky Kit -->
        <script src="js/sticky-kit.min.js"></script>
        <!-- Owl carousel -->
        <script src="js/owl.carousel.min.js"></script>
        <!-- Counters -->
        <script src="js/jquery.countTo.js"></script>
        <!-- MAIN JS -->
        <script src="js/main.js"></script>
    </body>
</html>
```

cost_update.jsp

```
<%@page import="java.sql.ResultSet"%>
<%@page import="java.util.Date"%>
<%@page import="java.text.SimpleDateFormat"%>
<%@page import="java.text.DateFormat"%>
<%@page import="DBconnection.SQLconnection"%>
<%@page import="java.sql.Statement"%>
<%@page import="java.sql.Connection"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%
    String pcost = request.getParameter("pcost");

    Connection con = null;
    Statement st = null;
    Statement st1 = null;
    Connection conn = SQLconnection.getconnection();
    Statement sto = conn.createStatement();
    st = conn.createStatement();

    try {
        int i = sto.executeUpdate("UPDATE parking_cost SET cost="'+ pcost +'" ");
        System.out.println("Test print parking Cost ==" + pcost);
        if (i != 0) {
                response.sendRedirect("parking_cost.jsp?Cost_updated");
            } else {

                System.out.println("failed");
                response.sendRedirect("parking_cost.jsp?Failed");
```

```
        }

    } catch (Exception ex) {
        ex.printStackTrace();
    }
%>
```

parking_cost.jsp

```
<%@page import="java.sql.ResultSet"%>
<%@page import="java.sql.Statement"%>
<%@page import="DBconnection.SQLconnection"%>
<%@page import="java.sql.Connection"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE HTML>
<html>
    <head>
        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <title>Online Parking Booking System</title>
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <meta name="description" content="" />
        <meta name="keywords" content="" />
        <meta name="author" content="" />
        <!-- Facebook and Twitter integration -->
        <meta property="og:title" content=""/>
        <meta property="og:image" content=""/>
        <meta property="og:url" content=""/>
        <meta property="og:site_name" content=""/>
        <meta property="og:description" content=""/>
        <meta name="twitter:title" content="" />
        <meta name="twitter:image" content="" />
        <meta name="twitter:url" content="" />
        <meta name="twitter:card" content="" />

        <link rel="shortcut icon" href="favicon.ico">
        <link href="https://fonts.googleapis.com/css?family=Quicksand:300,400,500,700"
rel="stylesheet">
        <!-- Animate.css -->
        <link rel="stylesheet" href="css/animate.css">
        <!-- Icomoon Icon Fonts-->
        <link rel="stylesheet" href="css/icomoon.css">
        <!-- Bootstrap  -->
        <link rel="stylesheet" href="css/bootstrap.css">
        <!-- Flexslider  -->
```

```
    <link rel="stylesheet" href="css/flexslider.css">
    <!-- Flaticons  -->
    <link rel="stylesheet" href="fonts/flaticon/font/flaticon.css">
    <!-- Owl Carousel -->
    <link rel="stylesheet" href="css/owl.carousel.min.css">
    <link rel="stylesheet" href="css/owl.theme.default.min.css">
    <!-- Theme style  -->
    <link rel="stylesheet" href="css/style.css">
    <!-- Modernizr JS -->
    <script src="js/modernizr-2.6.2.min.js"></script>
  </head>
  <style>

    #customers {
      font-family: "Trebuchet MS", Arial, Helvetica, sans-serif;
      font-size: 20px;
      border-collapse: collapse;
      width: 100%;
    }

    #customers td, #customers th {
      border: 2px solid black;
      align:"center";  cellpadding:"0"; cellspacing:"2";
      padding: 15px;
    }


    #customers th {
      padding-top: 12px;
      padding-bottom: 12px;
      text-align: left;
      background-color: #1DA1F2;
      color: white;
    }
  </style>
  <body>
    <div id="colorlib-page">
      <a class="js-colorlib-nav-toggle colorlib-nav-toggle"><i></i></a>
      <aside id="colorlib-aside" role="complementary" class="border js-fullheight">
        <h1 id="colorlib-logo"></h1>
        <nav id="colorlib-main-menu" role="navigation">
          <ul>
            <li><a href="Admin_Home.jsp">Home</a></li>
            <li class="colorlib-active"><a href="parking_cost.jsp">Parking
Cost</a></li>
            <li><a href="user_details.jsp">User Details</a></li>
```

```
                <li><a href="view_bookings.jsp">View Bookings</a></li>
                <li><a href="index.html">Logout</a></li>
              </ul>
            </nav>
          </aside>
          <div id="colorlib-main">
            <div class="colorlib-contact">
              <div class="colorlib-narrow-content">
                <div class="row">
                  <div class="col-md-12 animate-box" data-animate-
effect="fadeInLeft">
                    <h2 class="colorlib-heading">Online parking Booking
System</h2>
                  </div>
                </div>
                <div class="row">
                  <center><h2>Parking Cost</h2></center>
                  <br><br>
                  <div class="col-md-1">
                  </div>
                  <%
                    Connection con = SQLconnection.getconnection();
                    Statement st = con.createStatement();
                    try {
                      ResultSet rs = st.executeQuery("SELECT * FROM parking_cost
");
                      while (rs.next()) {
                  %>
                  <div class="col-md-6 col-md-push-2">
                    <div class="row">
                      <div class="col-md-10 col-md-offset-1 col-md-pull-1 animate-
box" data-animate-effect="fadeInLeft">
                        <form  action="cost_update.jsp" method="post">
                          <div class="form-group">
                              <label>Parking Cost Per Hour :</label>
                            <input type="text" class="form-control" name="pcost"
value="<%=rs.getString("cost")%>">
                          </div>
                          <div class="form-group">
                            <button type="submit" class="btn btn-success btn-
md">Update</button>
                          </div>
                        </form>
                      </div>
                    </div>
                  </div>
```

```
                    <%                                  }
                       } catch (Exception ex) {
                          ex.printStackTrace();
                       }


                    %>

                  </div>
                </div>
              </div>
            </div>
          </div>
          <!-- jQuery -->
          <script src="js/jquery.min.js"></script>
          <!-- jQuery Easing -->
          <script src="js/jquery.easing.1.3.js"></script>
          <!-- Bootstrap -->
          <script src="js/bootstrap.min.js"></script>
          <!-- Waypoints -->
          <script src="js/jquery.waypoints.min.js"></script>
          <!-- Flexslider -->
          <script src="js/jquery.flexslider-min.js"></script>
          <!-- Sticky Kit -->
          <script src="js/sticky-kit.min.js"></script>
          <!-- Owl carousel -->
          <script src="js/owl.carousel.min.js"></script>
          <!-- Counters -->
          <script src="js/jquery.countTo.js"></script>
          <!-- MAIN JS -->
          <script src="js/main.js"></script>
      </body>
</html>
```

slot_booking.jsp

```
<%@page import="java.util.TimeZone"%>
<%@page import="java.lang.String"%>
<%@page import="java.sql.Statement"%>
<%@page import="DBconnection.SQLconnection"%>
<%@page import="java.sql.Connection"%>
<%@page import="java.sql.ResultSet"%>
<%@page import="java.text.SimpleDateFormat"%>
<%@page import="java.text.DateFormat"%>
```

```
<%@page import="java.util.Date"%>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%
    String pdate = request.getParameter("pdate");
    String stime = request.getParameter("stime")+":00";
    String phrs = request.getParameter("phrs")+":00";
    String slot_name = request.getParameter("Slot");
    String totalcost = request.getParameter("totalcost");

    SimpleDateFormat timeFormat = new SimpleDateFormat("HH:mm:ss");
    timeFormat.setTimeZone(TimeZone.getTimeZone("UTC"));

    Date date1 = timeFormat.parse(stime);
    Date date2 = timeFormat.parse(phrs);

    long sum = date1.getTime() + date2.getTime();
    String etime = timeFormat.format(new Date(sum));
    System.out.println("start time : " + stime);
    System.out.println("parking hrs : " + phrs);
    System.out.println("End time : " + etime);

    String uid = (String) session.getAttribute("uid");
    String uname = (String) session.getAttribute("uname");
    String umail = (String) session.getAttribute("umail");
    Connection con = SQLconnection.getconnection();
    Statement st = con.createStatement();
    Statement st1 = con.createStatement();
    try {
        ResultSet rs = st.executeQuery("SELECT * FROM slot_booking WHERE pdate
='" + pdate + "' AND stime = '" + stime + "' AND slot_name = '" + slot_name + "' ");
        if (rs.next() == true) {
            response.sendRedirect("Book_parking.jsp?Already Booked");
        } else {
            DateFormat dateFormat = new SimpleDateFormat("yyyy/MM/dd HH:mm:ss");
            Date date = new Date();
            String time = dateFormat.format(date);
            System.out.println("Date and Time : " + time);
            int i = st1.executeUpdate("INSERT INTO slot_booking(uname, uid, pdate,
stime, phrs, umail, slot_name, time, endtime, pcost) values('" + uname + "','" + uid +
"','" + pdate + "','" + stime + "','" + phrs + "','" + umail + "', '" + slot_name + "','" + time
+ "','"+ etime +"','"+totalcost+"')");
            if (i != 0) {
                response.sendRedirect("Book_parking.jsp?Slot_booked");
            } else {
                response.sendRedirect("Book_parking.jsp?Failed");
            }
```

```
        }
    } catch (Exception ex) {
        ex.printStackTrace();
    }
%>
```

ant-deploy.xml

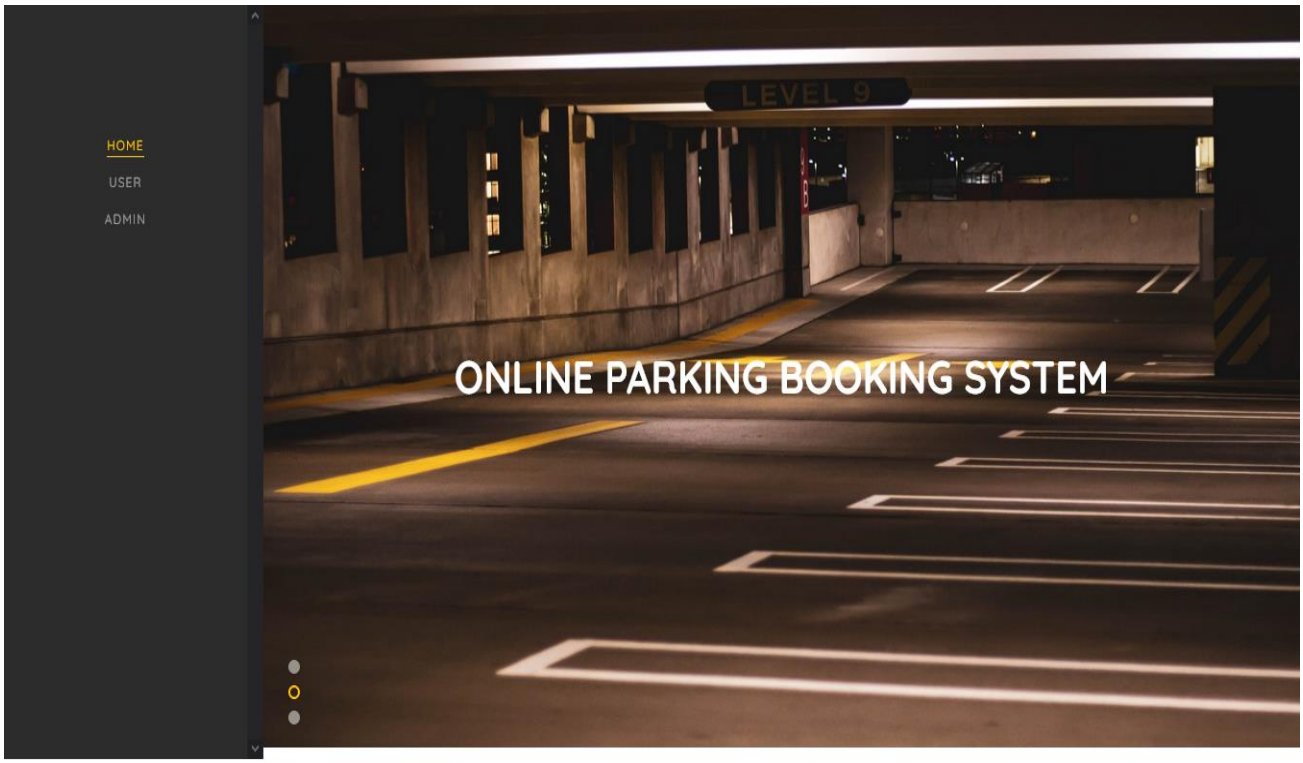
```
<?xml version="1.0" encoding="UTF-8"?>
<project default="-deploy-ant" basedir=".">
    <target name="-init" if="deploy.ant.enabled">
        <property file="${deploy.ant.properties.file}"/>
        <tempfile property="temp.module.folder" prefix="tomcat"
destdir="${java.io.tmpdir}"/>
        <unwar src="${deploy.ant.archive}" dest="${temp.module.folder}">
            <patternset includes="META-INF/context.xml"/>
        </unwar>
        <xmlproperty file="${temp.module.folder}/META-INF/context.xml"/>
        <delete dir="${temp.module.folder}"/>
    </target>
    <target name="-check-credentials" if="deploy.ant.enabled" depends="-init">
        <fail message="Tomcat password has to be passed as tomcat.password property.">
            <condition>
                <not>
                    <isset property="tomcat.password"/>
                </not>
            </condition>
        </fail>
    </target>
    <target name="-deploy-ant" if="deploy.ant.enabled" depends="-init,-check-
credentials">
        <echo message="Deploying ${deploy.ant.archive} to ${Context(path)}"/>
        <taskdef name="deploy" classname="org.apache.catalina.ant.DeployTask"
                 classpath="${tomcat.home}/server/lib/catalina-ant.jar"/>
        <deploy url="${tomcat.url}/manager" username="${tomcat.username}"
                password="${tomcat.password}" path="${Context(path)}"
                war="${deploy.ant.archive}"/>
        <property name="deploy.ant.client.url" value="${tomcat.url}${Context(path)}"/>
    </target>
    <target name="-undeploy-ant" if="deploy.ant.enabled" depends="-init,-check-
credentials">
        <echo message="Undeploying ${Context(path)}"/>
        <taskdef name="undeploy"  classname="org.apache.catalina.ant.UndeployTask"
                classpath="${tomcat.home}/server/lib/catalina-ant.jar"/>
```

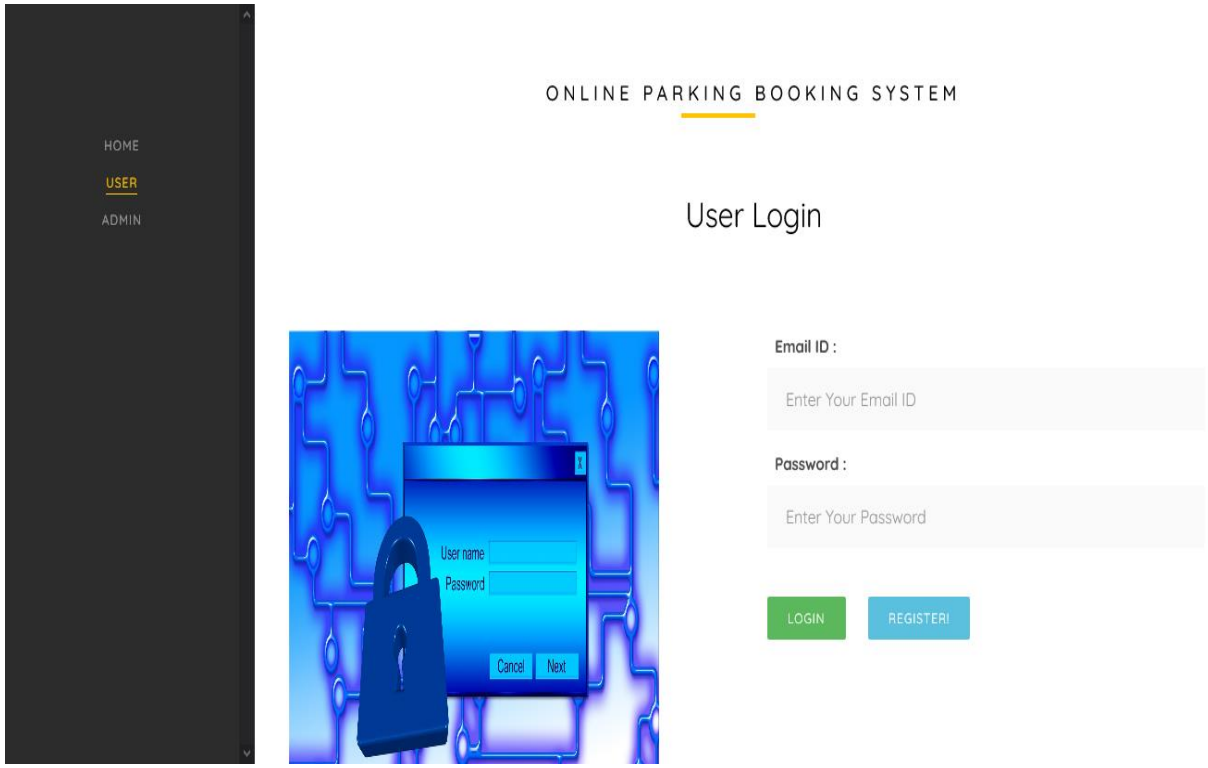
```
        <undeploy url="${tomcat.url}/manager" username="${tomcat.username}"
                password="${tomcat.password}" path="${Context(path)}"/>
    </target>
</project>
```

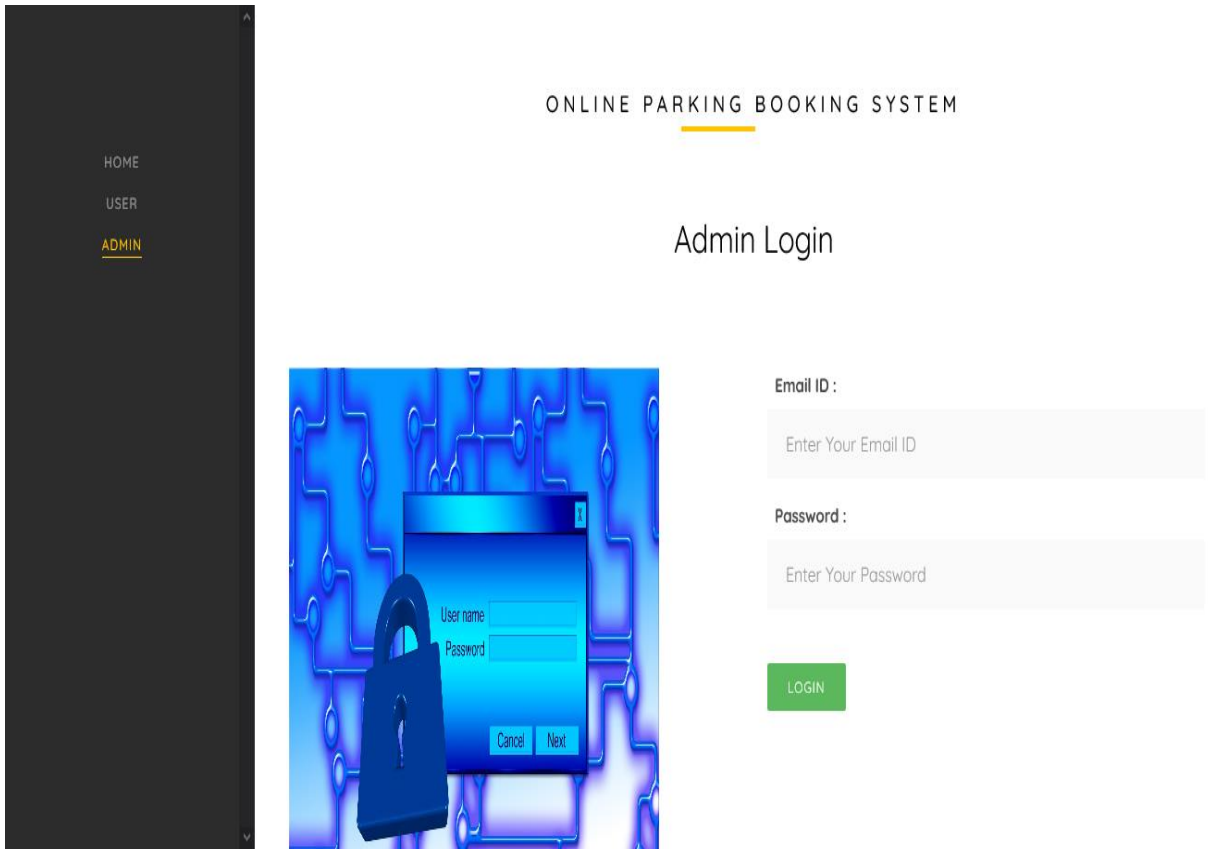
project.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://www.netbeans.org/ns/project/1">
    <type>org.netbeans.modules.web.project</type>
    <configuration>
        <data xmlns="http://www.netbeans.org/ns/web-project/3">
            <name>Online_Parking_Booking_System</name>
            <minimum-ant-version>1.6.5</minimum-ant-version>
            <web-module-libraries>
                <library dirs="200">
                    <file>${libs.MySQLDriver.classpath}</file>
                    <path-in-war>WEB-INF/lib</path-in-war>
                </library>
            </web-module-libraries>
            <web-module-additional-libraries/>
            <source-roots>
                <root id="src.dir" name="Source Packages"/>
            </source-roots>
            <test-roots>
                <root id="test.src.dir" name="Test Packages"/>
            </test-roots>
        </data>
        <libraries xmlns="http://www.netbeans.org/ns/ant-project-libraries/1">
            <definitions>.\lib\nblibraries.properties</definitions>
        </libraries>
    </configuration>
</project>
```

4.RESULTS:




HOME
USER
ADMIN
ONLINE PARKING BOOKING SYSTEM
User Login
User name
Password
Cancel
Next
Email ID :
Enter Your Email ID
Password :
Enter Your Password
LOGIN
REGISTER!


HOME
USER
ADMIN
ONLINE PARKING BOOKING SYSTEM
Admin Login
User name
Password
Cancel
Next
Email ID :
Enter Your Email ID
Password :
Enter Your Password
LOGIN

HOME

USER

ADMIN

ONLINE PARKING BOOKING SYSTEM

User Register

Name :

Enter Your Name

DOB :

dd / mm / yyyy

Email ID :

Enter Your Email ID

Gender :

Select Your Gender

Phone No :

Enter Your Phone No

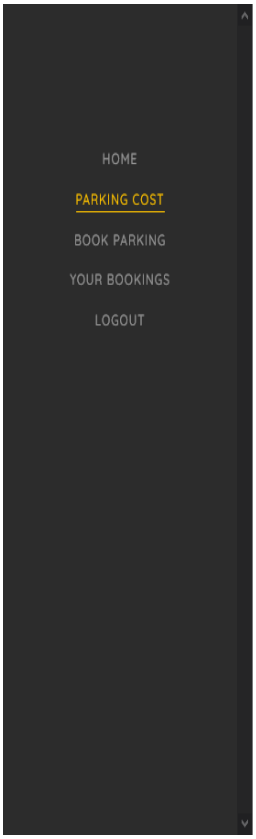
Address :

Enter Your Address

Password :

Enter Your Password

SIGN UP

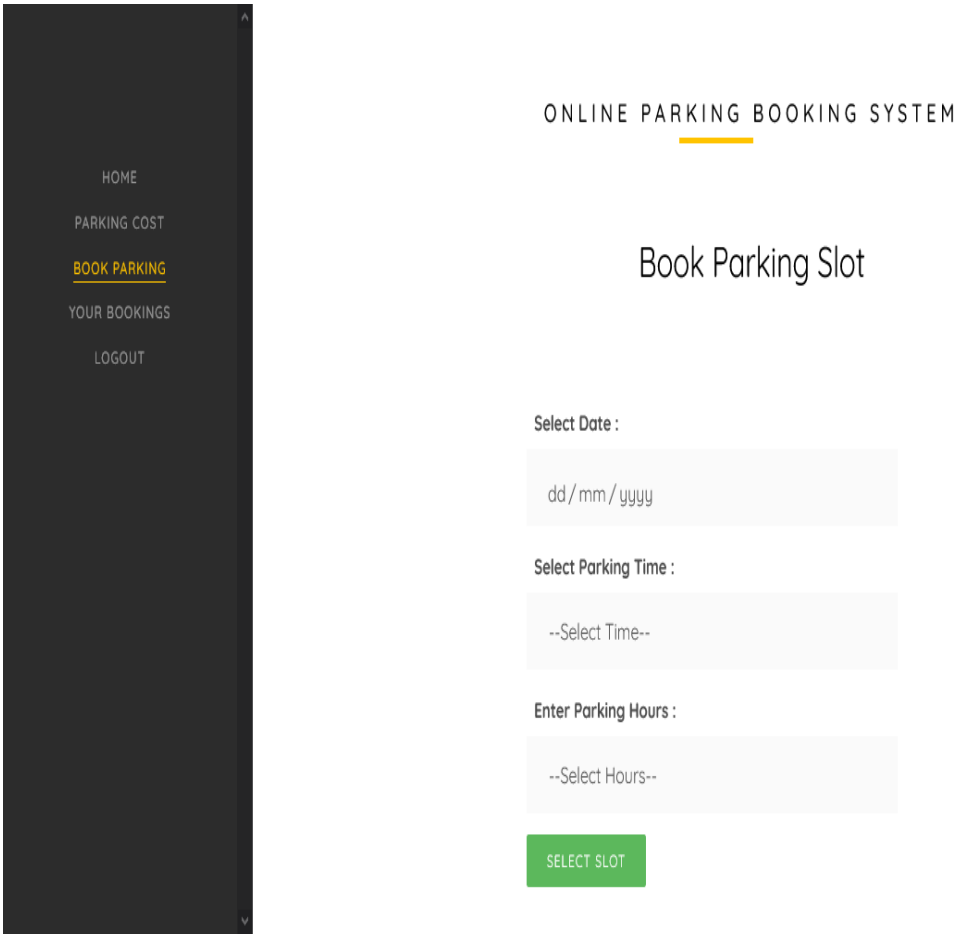


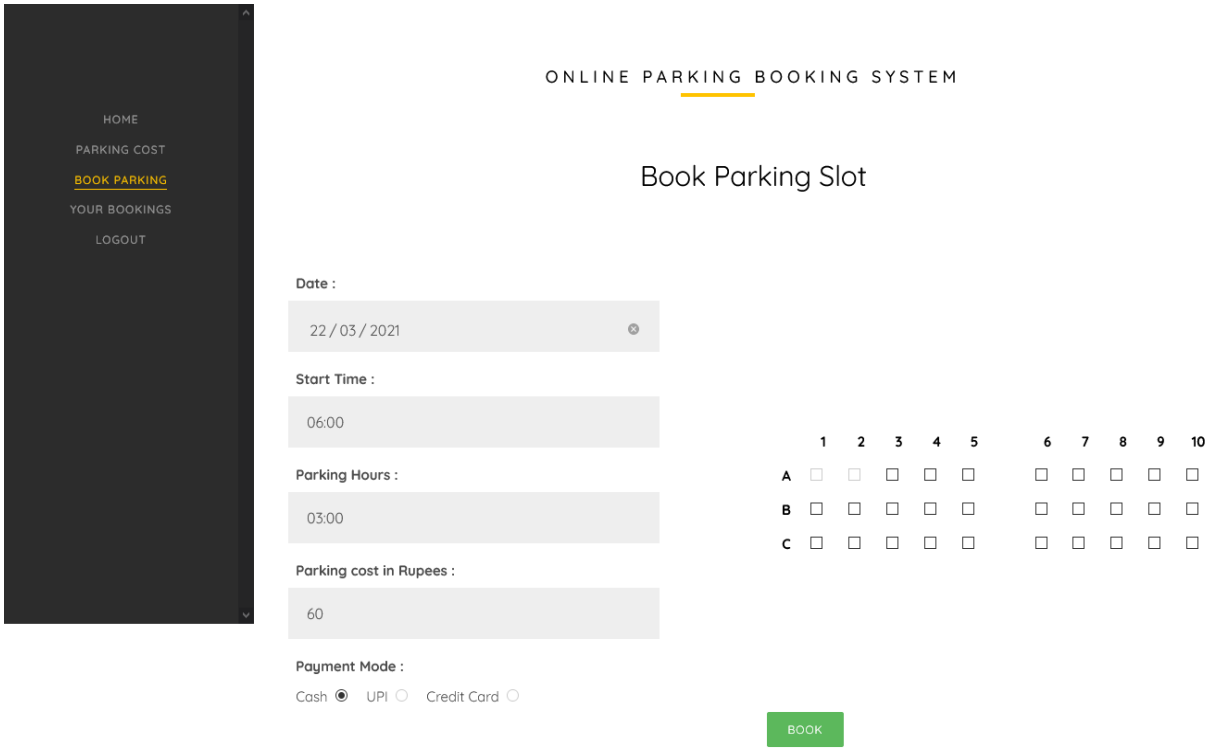
ONLINE PARKING BOOKING SYSTEM

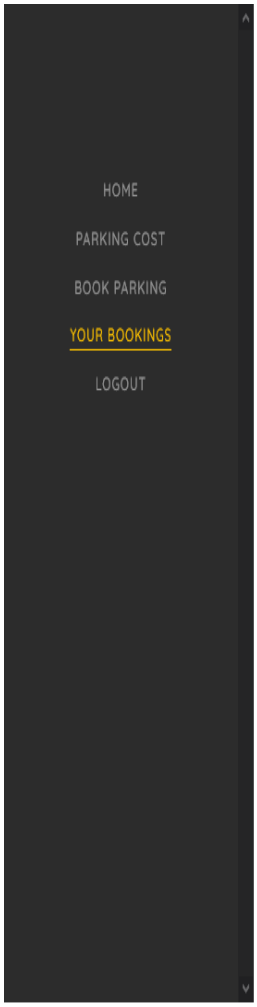
Parking Cost

Parking Cost Per Hour :

20


HOME
PARKING COST
BOOK PARKING
YOUR BOOKINGS
LOGOUT
ONLINE PARKING BOOKING SYSTEM
Book Parking Slot
Select Date :
dd / mm / yyyy
Select Parking Time :
--Select Time--
Enter Parking Hours :
--Select Hours--
SELECT SLOT

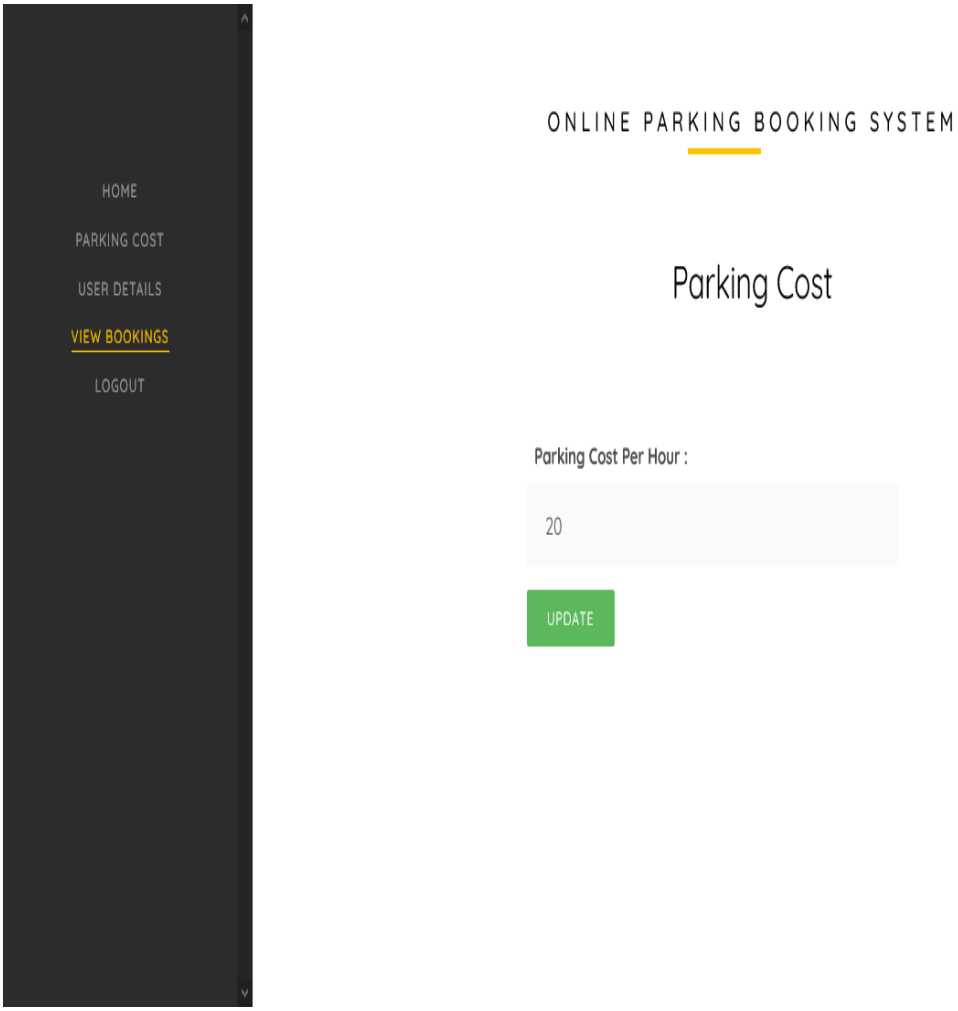

HOME
PARKING COST
BOOK PARKING
YOUR BOOKINGS
LOGOUT
ONLINE PARKING BOOKING SYSTEM
Book Parking Slot
Date :
22 / 03 / 2021
Start Time :
06:00
Parking Hours :
03:00
Parking cost in Rupees :
60
Payment Mode :
Cash
UPI
Credit Card
1 2 3 4 5 6 7 8 9 10
A
B
C
BOOK



ONLINE PARKING BOOKING SYSTEM

Booking Details

Parking Date	Start Time	End Time	Slot Name	Booking Time
2021-03-22	06:00:00	08:00:00	Slot 1	2021/03/20 18:05:50
2021-03-22	06:00:00	09:00:00	Slot 2	2021/03/20 18:08:22
2021-03-22	12:00:00	14:00:00	Slot 1	2021/03/20 18:48:42


HOME
PARKING COST
USER DETAILS
VIEW BOOKINGS
LOGOUT
ONLINE PARKING BOOKING SYSTEM
Parking Cost
Parking Cost Per Hour :
20
UPDATE

5.CONCLUSION

In this modern world, with the rapid growth of population vehicle traffic has become a part of our day to day life. Moreover, unauthorized vehicle has also increased. Thus our proposed system aims to ensure proper management of vehicles in the public places such as educational institute, office etc in order to prevent unauthorized vehicle parking and traffic. The features include viewing the parking spaces, selecting the space with the required date and time, paying the parking bills etc.. Online Parking Booking System is sure a complete web application for making the parking management easier and simpler in an effective way.

Future Enhancement:

The main aim that we have is to create a completely automated car parking system with minimal human interference. With the rising population in the world, time is of the essence and hence we need to minimize the time taken by trivial activities such as finding a place to park in a busy place and avoid traffic congestion. We have seen in existing systems sometimes accidents can occur in parking situations by cars going at high speed o caused by frustrated drivers unable to find a parking space for a long period of time. In our future project we propose a smart and automated car parking model that will help the user in booking their parking spaces beforehand and the vehicle will be able to park automatically once in the parking zone .The difference between our project of automated car parking systems is we hope to minimize human interaction as much as possible and make both the vehicle and the parking area fitted with sensors that will help us execute a safe and efficient way of parking. Hence, we aim to provide a completely safe and automated experience that is robust and can be implemented in real time and hopefully be implemented as the general norm for parking systems in the future.

6. REFERENCES

1. https://www.w3schools.com

2.https://www.javatpoint.com

3.https://www.quora.com