

SPONT FINDER ARRIVE STRESS FREE

Create an application that simplifies the process of finding and booking parking spaces in crowded cities.

INTRODUCTION

The rapid growth in population has led to substantial traffic bottlenecks in recent transportation systems. This not only causes significant air pollution, and waste in time and energy, but also signifies the issue of the auto-park scarcity. In the age of Internet of Things (IoT) and smart city ecosystems, smart parking and relevant innovative solutions are necessary towards more sustainable future cities. Smart parking with the help of sensors embedded in cars and city infrastructures can alleviate the deadlocks in parking problems and provide the best quality of services and profit to citizens. However, several design aspects should be well investigated and analyzed before implementing such solutions.

we classify the smart parking systems while considering soft and hard design factors. We overview the enabling technologies and sensors which have been commonly used in the literature. We emphasize the importance of data reliability, security, privacy and other critical design factors in such systems. Emerging parking trends in the ecosystem are investigated, while focusing on data interoperability and exchange

- Parking in crowded areas can be a frustrating experience for many.
- The application aims to streamline the process of finding and booking parking spaces.
- Users can save time and reduce stress by using the app.

CHALLENGES

- Finding parking in crowded areas is time-consuming.
- Lack of available parking spaces leads to frustration.
- Uncertainty about parking availability can cause anxiety.

APPLICATIONS

- Real-time parking space availability updates.
- Booking parking spaces in advance.
- Navigation to the selected parking spot.

INTERFACE

- Intuitive design for easy navigation.
- Simple booking process.
- Customizable preferences for parking search.

PARKING TRENDS

- Analyzing parking patterns and trends.
- Predicting peak hours for parking availability.
- Improving user experience based on data insights.

GREEN PARKING

- Promoting eco-friendly parking options.
- Encouraging carpooling and shared parking spaces.
- Rewarding users for choosing sustainable parking solutions.

COMMUNITY

- Building a community of users sharing parking insights.
- User reviews and ratings for parking spaces.
- Social sharing features for parking experiences.

SECURITY

- Ensuring secure transactions for parking bookings.
- Safety guidelines for parking facilities.
- Emergency support options within the app

Expansion Plans and Scalability

- Scaling the app to cover more cities.
- Partnering with international parking facilities.
- Continuous innovation for future growth

Future Developments

- Implementing AI for predictive parking suggestions.
- Augmented reality features for easier navigation.
- Smart parking solutions for connected vehicles.

FINAL APPLICATION

- The app revolutionizes the parking experience in crowded areas.
- Simplifying the process of finding and booking parking spaces.
- Enhancing user convenience and reducing stress.

INTERFACE CODE

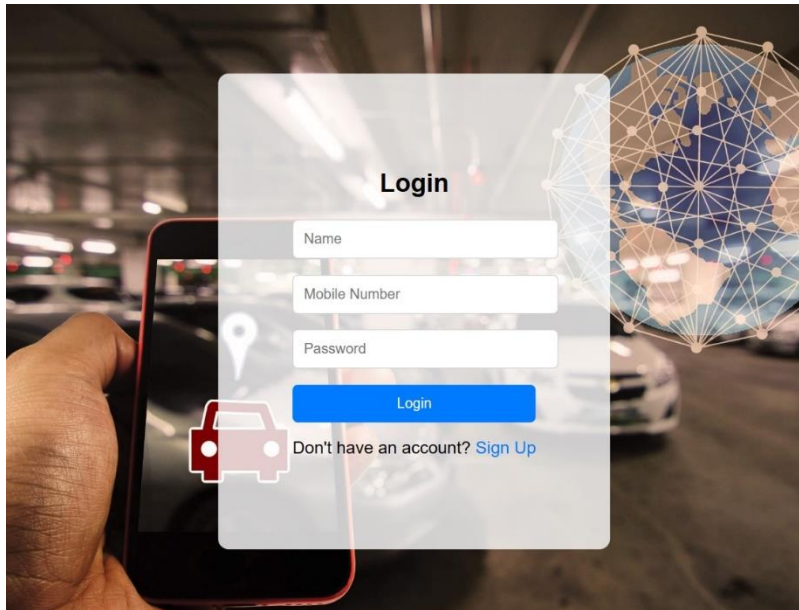
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Slot Booking Form</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h2>Slot Booking</h2>
    <form action="submit_booking.php" method="POST">
      <label for="slotNumber">Slot Number:</label>
      <input type="text" id="slotNumber" name="slotNumber"
required>

      <label for="carNumber">Car Number:</label>
      <input type="text" id="carNumber" name="carNumber" required>

      <label for="mobileNumber">Mobile Number:</label>
      <input type="tel" id="mobileNumber" name="mobileNumber"
required>

      <label for="payment">Payment Method:</label>
      <select id="payment" name="payment" required>
        <option value="">Select Payment Method</option>
        <option value="creditCard">Credit Card</option>
        <option value="paypal">PayPal</option>
        <option value="bankTransfer">Bank Transfer</option>
      </select>

      <button type="submit">Book Slot</button>
    </form>
  </div>
</body>
</html>
```



AVALIABILITY SYSTEM

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Smart Parking System</title>
```

```
  <style>
```

```
    body {
```

```
      font-family: Arial, sans-serif;
```

```
      margin: 0;
```

```
      padding: 0;
```

```
      background-color: #f4f4f4;
```

```
    }
```

```
    .container {
```

```
      max-width: 800px;
```

```
      margin: 20px auto;
```

```
      padding: 20px;
```

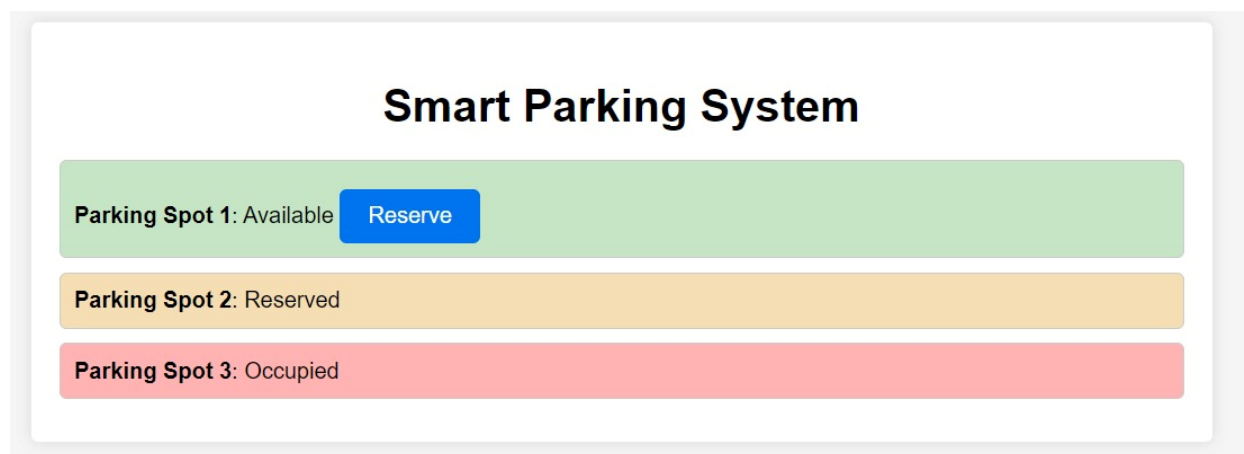
```
      background-color: #fff;
```

```
      border-radius: 5px;
```

```
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
```

```
}  
  
h1 {  
    text-align: center;  
    margin-bottom: 20px;  
}  
  
.parking-spot {  
    padding: 10px;  
    margin-bottom: 10px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    background-color: #f9f9f9;  
}  
  
.parking-spot.available {  
    background-color: #c6e5c4;  
}  
  
.parking-spot.reserved {  
    background-color: #f5deb3;  
}  
  
.parking-spot.occupied {  
    background-color: #ffb3b3;  
}  
  
.button {  
    display: inline-block;  
    padding: 10px 20px;  
    margin-top: 10px;  
    background-color: #007bff;  
    color: #fff;  
    text-decoration: none;  
    border-radius: 5px;  
    transition: background-color 0.3s;  
}  
  
.button:hover {  
    background-color: #0056b3;
```

```
}  
  
</style>  
</head>  
<body>  
  <div class="container">  
    <h1>Smart Parking System</h1>  
    <div class="parking-spot available">  
      <strong>Parking Spot 1</strong>: Available  
      <a href="#" class="button">Reserve</a>  
    </div>  
    <div class="parking-spot reserved">  
      <strong>Parking Spot 2</strong>: Reserved  
    </div>  
    <div class="parking-spot occupied">  
      <strong>Parking Spot 3</strong>: Occupied  
    </div>  
    <!-- Add more parking spots as needed -->  
  </div>  
</body>  
</html>
```



RESERVATION SITE

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Smart Parking System</title>

  <style>

    /* CSS styles */

    /* Include the styles from the previous example */

  </style>

</head>

<body>

  <div class="container">

    <h1>Smart Parking System</h1>

    <!-- Parking spot containers -->

    <div id="parking-spots"></div>

    <!-- Modal for spot reservation -->

    <div id="reservation-modal" class="modal">

      <div class="modal-content">

        <span class="close">&times;</span>

        <h2>Reserve Parking Spot</h2>

        <form id="reservation-form">

          <label for="arrival-time">Arrival Time:</label>

          <input type="datetime-local" id="arrival-time" name="arrival-time" required><br><br>

          <label for="duration">Duration (hours):</label>

          <input type="number" id="duration" name="duration" min="1" max="24"
required><br><br>

          <button type="submit">Reserve Spot</button>

        </form>

      </div>

    </div>

  </div>
```

<script>

Smart Parking System

×

Reserve Parking Spot

Arrival Time: 

Duration (hours):

BASIC WEBSITE

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Your Website Title</title>

  <!-- Add any CSS stylesheets here -->

  <link rel="stylesheet" href="styles.css">

</head>

<body>

  <header>

    <h1>Your Website Header</h1>

    <nav>

      <ul>

        <li><a href="#home">Home</a></li>

        <li><a href="#about">About</a></li>
```



```
        <li><a href="#services">Services</a></li>

        <li><a href="#contact">Contact</a></li>

    </ul>

</nav>

</header>

<main>

    <section id="home">

        <h2>Welcome to Your Website</h2>

        <p>This is the homepage content. You can introduce your website here.</p>

    </section>

    <section id="about">

        <h2>About Us</h2>

        <p>This section can contain information about your company or organization.</p>

    </section>

    <section id="services">

        <h2>Our Services</h2>

        <ul>

            <li>Service 1</li>

            <li>Service 2</li>

            <li>Service 3</li>

        </ul>

    </section>

    <section id="contact">

        <h2>Contact Us</h2>

        <p>You can provide contact information or a contact form here.</p>

    </section>

</main>

<footer>
```

<p>© 2024 Your Website. All rights reserved.</p>

</footer>

<!-- Add any JavaScript scripts here -->

<script src="scripts.js"></script>

</body>

</html>

- [Home](#)
- [About](#)
- [Services](#)
- [Contact](#)

Welcome to Your Website

This is the homepage content. You can introduce your website here.

About Us

This section can contain information about your company or organization.

Our Services

- Service 1
- Service 2
- Service 3

Contact Us

You can provide contact information or a contact form here.

ABOUT APP

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Your Website Title</title>

```
<link rel="stylesheet" href="styles.css">
```

```
<style>
```

```
body {  
    font-family: Arial, sans-serif;  
    margin: 0;  
    padding: 0;  
}
```

```
header {  
    background-color: #333;  
    color: #fff;  
    padding: 20px;  
    text-align: center;  
}
```

```
nav ul {  
    list-style-type: none;  
    padding: 0;  
}
```

```
nav ul li {  
    display: inline;  
    margin-right: 20px;  
}
```

```
main {  
    padding: 20px;  
}
```

```
section {  
    margin-bottom: 30px;  
}
```

```
section h2 {  
    color: #333;  
}
```

```
footer {  
    background-color: #333;  
    color: #fff;
```

```
padding: 20px;
text-align: center;
}
</style>
</head>
<body>
  <header>
    <h1>Your Website Header</h1>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#services">Services</a></li>
        <li><a href="#gallery">Gallery</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
  </header>

  <main>
    <section id="home">
      <h2>Welcome to Your Website</h2>
      <p>This is the homepage content. You can introduce your website here.</p>
    </section>

    <section id="about">
      <h2>About Us</h2>
      <p>This section can contain information about your company or organization.</p>
    </section>

    <section id="services">
      <h2>Our Services</h2>
      <ul>
```

```
<li>Service 1</li>
<li>Service 2</li>
<li>Service 3</li>
</ul>
</section>
```

```
<section id="gallery">
  <h2>Gallery</h2>
  <div class="gallery">
    
    
  </div>
</section>
```

Welcome to Spot finder

Arrive Stressfree.

About Us

Save time , save fuel(ecofriendly).

Our Services

- Service 1
- Service 2
- Service 3

Gallery

 Image 1  Image 2

PAYMENT GATEWAY

```
<section id="payment">
  <h2>Payment</h2>
  <form action="#" method="post">
    <label for="card_number">Card Number:</label>
    <input type="text" id="card_number" name="card_number" required><br><br>
    <label for="expiration_date">Expiration Date:</label>
    <input type="date" id="expiration_date" name="expiration_date" required><br><br>
    <label for="cvv">CVV:</label>
    <input type="number" id="cvv" name="cvv" required><br><br>
    <label for="name_on_card">Name on Card:</label>
    <input type="text" id="name_on_card" name="name_on_card" required><br><br>
    <input type="submit" value="Pay Now">
  </form>
</section>
```

Payment

Card Number:

Expiration Date: 

CVV:

Name on Card:

ORDER CONFORMATION

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Order Confirmation</title>

<style>

  body {

    font-family: Arial, sans-serif;

    margin: 0;

    padding: 0;

  }

  .container {

    max-width: 600px;

    margin: 20px auto;

    padding: 20px;

    border: 1px solid #ccc;

    border-radius: 5px;

  }

  h2 {

    color: #333;

  }

  p {

    margin-bottom: 10px;

  }

  .confirmation-info {

    background-color: #f4f4f4;

    padding: 10px;

    border-radius: 5px;

  }

</style>

</head>

<body>

  <div class="container">

    <h2>Order Confirmation</h2>

    <div class="confirmation-info">
```

```
<p><strong>Order Number:</strong> 123456789</p>
<p><strong>Item:</strong> Product Name</p>
<p><strong>Total Amount:</strong> $100.00</p>
<p><strong>Shipping Address:</strong> 123 Main St, City, State, ZIP</p>
<p><strong>Payment Method:</strong> Credit Card</p>
</div>
<p>Thank you for your order! A confirmation email has been sent to your email address.</p>
<p><a href="index.html">Back to Home</a></p>
</div>
</body>
</html>
```

Order Confirmation

Order Number: 123456789

Item: Product Name

Total Amount: \$100.00

Shipping Address: 123 Main St, City, State, ZIP

Payment Method: Credit Card

Thank you for your order! A confirmation email has been sent to your email address.

[Back to Home](#)

