# cprime

**Web Development Project**

**Html - Css - JavaScript Project**
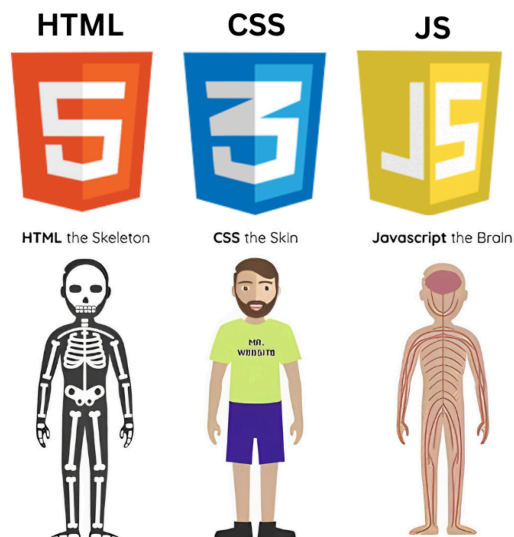
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https://github.com/stanleycprime/IITM-Hall-Booking

# IITM Research Park - Conference Hall Booking Website Documentation

## Overview

The IITM Research Park Conference Hall Booking website is a structured, user-friendly platform that allows users to book conference halls efficiently. The website consists of three main files:

1. **important.html** - Defines the structure of the webpage.

2. **styling.css** - Provides design and styling elements for a modern user interface.

3. **scripting.js** - Implements interactivity, form validation, and smooth navigation.

This documentation explains the purpose, implementation steps, and conclusions for each component.

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# important.html - Website Structure

## Overview

This file defines the webpage's structure using HTML. It includes the navigation bar, sections for hall information, and a booking form.

## Implementation Steps

### 1. Header and Navigation Bar

```
<header class="sticky-header">
  <div class="logo">
    <img src="iit-logo.png" alt="IITM Research Park Logo">
  </div>
  <nav>
    <ul>
      <li><a href="#home" class="nav-link">Home</a></li>
      <li><a href="#halls" class="nav-link">Conference Halls</a></li>
      <li><a href="#booking" class="nav-link">Book Now</a></li>
    </ul>
  </nav>
</header>
```

- Creates a **sticky navigation bar** with a logo and menu links.

- Uses `<nav>` and `<ul>` to structure links.

## 2. Conference Halls Section

```
<section id="halls" class="conference-halls">
    <div class="section-header">
        <h2>Our Conference Halls</h2>
    </div>
    <div class="hall-grid">
        <div class="hall-card">
            <div class="hall-image">
                <img src="sarabhai.png" alt="Sarabhai Hall">
            </div>
            <div class="hall-details">
                <h3>Sarabhai Hall</h3><p>Capacity: 100 Seats</p>
            </div>
        </div>
    </div>
</section>
```

- Displays **conference hall details** in a grid layout.

- Each hall has an image, name, and seating capacity.

## 3. Booking Form

```
<form id="bookingForm" class="booking-form">
    <div class="form-group">
        <label for="name">Full Name</label><input type="text" id="name" required>
    </div>
    <button type="submit" class="submit-button">Confirm Booking</button>
</form>
```

- Implements a **user-friendly booking form**.

- Contains input fields for **name, hall selection, date, and participants**.

- Uses `<button>` to submit the form.

# Conclusion

This HTML file structures the webpage, enabling users to navigate, view hall details, and book a hall efficiently.

# styling.css - Website Styling

## Overview

This file enhances the website's appearance using CSS variables and modern styling techniques.

## Implementation Steps

### 1. Global Styling and Theme Variables

```
:root {
    --primary-color: #2563eb;
    --secondary-color: #3b82f6;
    --background-color: #f8fafc;
    --text-color: #1e293b;
}
```

- Defines **custom properties** for consistent theming.

- Enhances reusability for colors and spacing.

### 2. Navigation Bar Styling

```
.sticky-header {
    display: flex;
    justify-content: space-between;
    align-items: center;
    background-color: var(--white);
    box-shadow: var(--shadow-subtle);
    position: sticky;
    top: 0;
}
```

- Creates a **sticky** navigation bar that remains fixed while scrolling.

- Uses `box-shadow` to enhance visibility.

### 3. Conference Hall Grid Styling

```
.hall-grid {
    display: grid;
    grid-template-columns: repeat(4, 1fr);
    gap: 2rem;
    padding: 0 5%;
}
```

- Uses **CSS Grid** to display hall cards in a structured layout.

- Ensures responsiveness with spacing adjustments.

### 4. Booking Form Styling

```
.booking-form {
    background-color: var(--background-color);
    padding: 3rem;
    border-radius: 12px;
    box-shadow: var(--shadow-medium);
    width: 500px;
}
```

- Provides a **modern, visually appealing form**.

- Uses `box-shadow` and `border-radius` for a soft, rounded design.

# Conclusion

The CSS file enhances usability by making the website visually appealing and responsive while maintaining a professional look.

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# scripting.js - Interactive Functionality

## Overview

This JavaScript file enables interactivity such as form validation and smooth scrolling.

## Implementation Steps

### 1. Booking Form Validation

```
bookingForm.addEventListener('submit', function(event) {
    event.preventDefault();
    const name = document.getElementById('name').value.trim();
    if (!name) {
        showMessage('Please enter your full name.', 'error');
        return;
    }
    showMessage(`Booking Confirmed! Confirmation sent to ${name}`, 'success');
    bookingForm.reset();
});
```

- Prevents form submission if fields are empty.

- Displays a **confirmation message** when booking is successful.

- Uses `showMessage()` to handle user feedback.

## 2. Date Restriction for Booking

```
const dateInput = document.getElementById('date');
const today = new Date().toISOString().split('T')[0];
dateInput.setAttribute('min', today);
```

- Prevents **past date selection** for bookings.

## 3. Smooth Scrolling for Navigation

```
document.querySelectorAll('.nav-link').forEach(anchor => {
   anchor.addEventListener('click', function(e) {
      e.preventDefault();
      const targetSection = document.querySelector(this.getAttribute('href'));
      targetSection.scrollIntoView({ behavior: 'smooth' });
   });
});
```

- Implements smooth scrolling between sections.

- Enhances navigation experience.

# Conclusion

The JavaScript file ensures seamless user interaction, improving accessibility and form validation to provide a smooth booking process.

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# Output

The final output is a visually appealing, fully functional Conference Hall Booking website that enables users to book halls efficiently. The smooth navigation, structured form validation, and responsive design contribute to a professional user experience.

This documentation serves as a comprehensive guide to understanding and implementing the IITM Research Park Conference Hall Booking website.

# 1. Landing Page
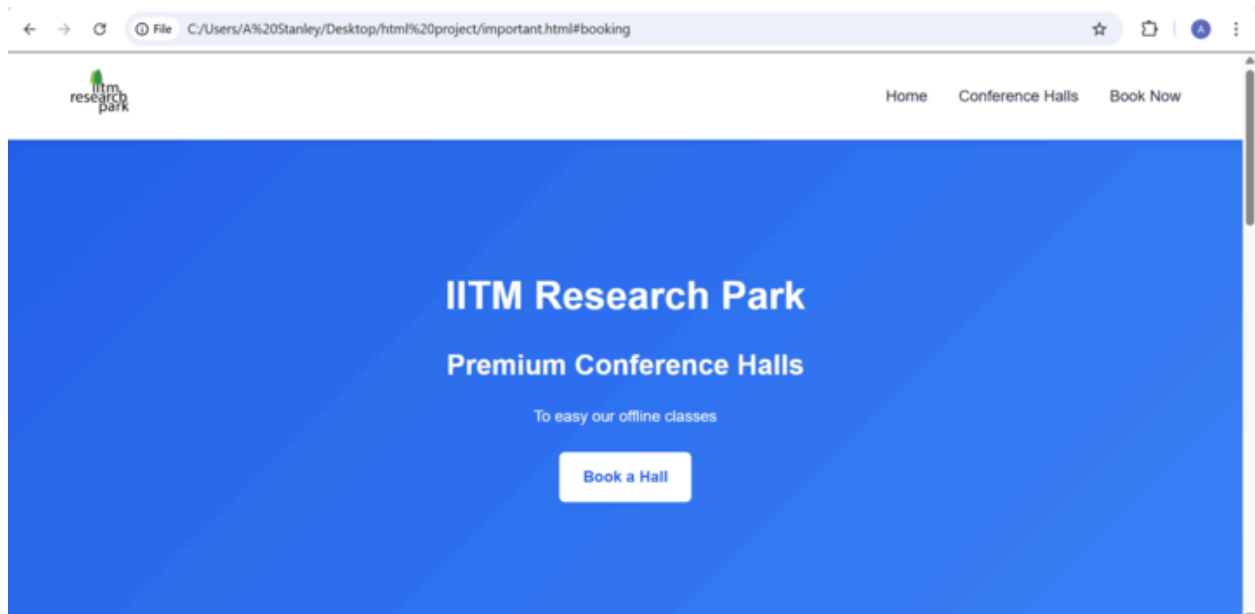


# 2. Conference Halls Page
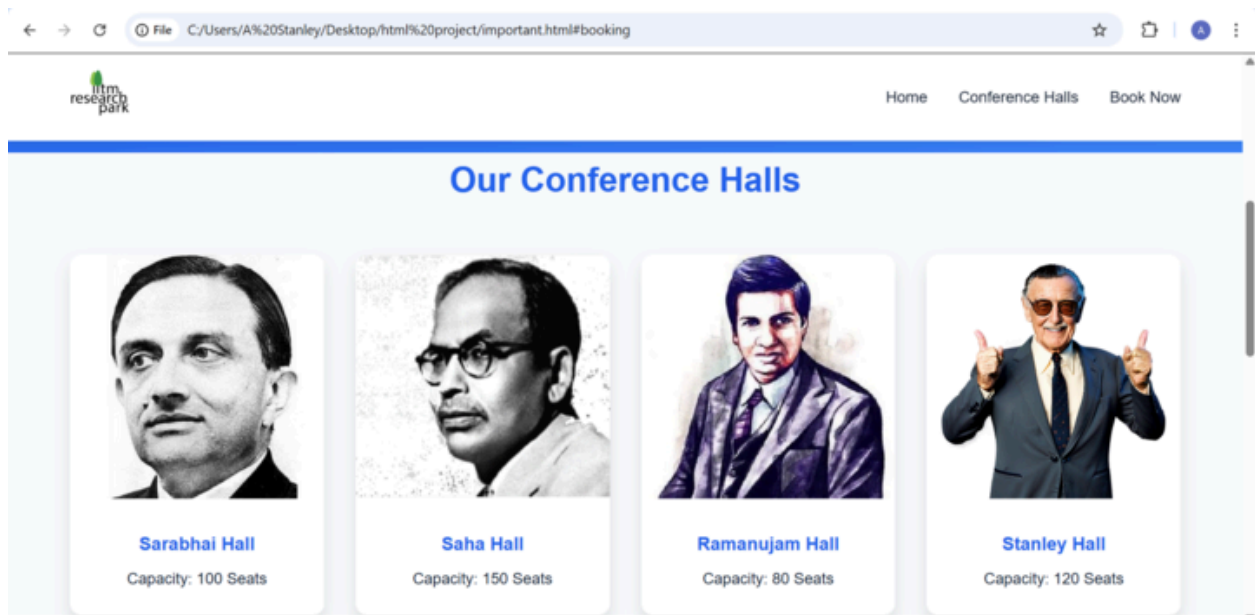
## 3. Booking Page



## 3. After Booking Page



# Final Thoughts

The IITM Research Park Conference Hall Booking website integrates HTML, CSS, and JavaScript effectively to provide a structured, visually appealing, and interactive platform. The combination of form validation, smooth scrolling, and a user-friendly booking system enhances the overall user experience.