# LATTHE EDUCATION SOCIETY’S POLYTECHNIC, SANGLI



**DEPARTMENT OF COMPUTER ENGINEERING**

# MICRO PROJECT REPORT

**SUBJECT: Client Side Scripting**

# TITLE: Develop a University Website using JS.

**SUBMITTED BY:**

|  |  |  |
| --- | --- | --- |
| **Roll Number** | **Name** | **Enrollment Number** |
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**Rationale**

In today's digital age, universities need an accessible and well-structured online presence to provide important information to students, faculty, and the general public. This project aims to create a simple and functional university website using web development technologies such as HTML for structure, CSS for design, and JavaScript for interactive elements.

#### **Objective**:-

The primary objective of this project is to develop a responsive, user-friendly university website that provides information about the university, courses, events, and other key details. The project will help in enhancing practical web development skills and understanding the basic technologies involved in building a modern website.

#### **Significance**:-

* **Practical Skill Development**:  
  The project encourages learning and applying fundamental web development skills. HTML provides the structure of the website, CSS enhances the design, and JavaScript adds interactivity, making it a comprehensive learning experience.
* **Improving User Experience**:  
  The website will make it easier for users (students, faculty, visitors) to access university-related information, such as admission details, course offerings, and news updates.
* **Responsive Design**:  
  The website will be designed to function seamlessly across different devices, ensuring accessibility for mobile, tablet, and desktop users, which is essential for modern websites.
* **Career Relevance**:  
  Building a website helps in developing career-relevant skills. Web development is in high demand, and knowledge of HTML, CSS, and JavaScript can open opportunities in the field of technology.
* **Creative Problem Solving**:  
  This project encourages creativity in designing a visually appealing website while solving coding problems, which enhances both technical and creative thinking skills.

**Aim of the Microproject**

The aim of this microproject is to design and develop a responsive and user-friendly university website using HTML, CSS, and JavaScript. The website will provide essential information such as course details, event listings, and user ratings. This project focuses on enhancing web development skills by applying basic coding techniques while creating a functional and visually appealing website that works well across all devices.

**Course Outcomes Addressed**

* Create interactive web pages using program flow control structure.
* Create Event based web forms using Javascript.
* Create interactive webpage using Regular Expression for Validation.
* Create Menus and navigations in web Pages.

**Resources Required**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr No.** | **Name of resource/material** | **Specifications** | **Remark** |
| 1 | Computer System | Intel Core i5 and RAM 8GB Windows 11 | 1 |
| 2 | Software | Visual Studio Code | 1 |
| 3 | And other resources used | Laser Printer HP LaserJetPro P1566 Printer | 1 |

**Actual Methodology Followed**

* **Planning**: I started by planning the layout and structure of the university website. The main sections focused on were Course Details and Events, with an outline of the information to be included in each section.
* **HTML Structure**: Using HTML, I built the basic structure of the website. Separate sections were designed for displaying courses and listing upcoming events. The content was organized for ease of use and clarity.
* **Styling with CSS**: CSS was used to style the website and make it visually appealing. This included selecting appropriate fonts, colors, and layouts to create a professional and user-friendly design. I also implemented responsive design to ensure the website works smoothly on different devices, such as smartphones and desktops.
* **Adding Interactivity with JavaScript**: I used JavaScript to add interactivity to the website. For example, users could click on events or courses to get more detailed information, making the website dynamic and engaging.
* **Testing and Debugging**: The website was tested across different devices and browsers to ensure proper functionality. Any issues related to layout, responsiveness, or interactive elements were fixed during this stage.
* **Final Review and Deployment**: After confirming the website worked as intended, I completed the project and prepared it for submission. The final product is a clean, functional university website that effectively displays course details and event information in an accessible format.

**Source Code**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Course Registration Form</title>

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

<link rel="preconnect" href="https://fonts.googleapis.com">

<link rel="preconnect" href="https://fonts.gstatic.com">

<script>

function savedata() {

// Object Creation.

var name = document.getElementById('Name');

var errorname = document.getElementById('errorname');

var email = document.getElementById('Email');

var mobile = document.getElementById('MobileNo');

var errormobile = document.getElementById('errormob');

var pwd = document.getElementById('pwd');

name.style.backgroundColor = "white";

email.style.backgroundColor = "white";

mobile.style.backgroundColor = "white";

pwd.style.backgroundColor = "white";

errorname.innerHTML = "";

errormobile.innerHTML = "";

if (name.value.trim() == "") {

name.style.backgroundColor = "rgb(255, 215, 215)";

name.focus();

errorname.innerHTML = "Please Enter The Name";

errorname.style.color = "red";

return;}

if (email.value.trim() == "") {

email.style.backgroundColor = "rgb(255, 215, 215)";

email.focus();

return;}

if (mobile.value.trim() == "") {

mobile.style.backgroundColor = "rgb(255, 215, 215)";

mobile.focus();

return;

}

if (pwd.value.trim() == "") {

pwd.style.backgroundColor = "rgb(255, 215, 215)";

pwd.focus();

return;

}

alert("Registration Successful");

}

</script>

</head>

<body>

<div class="container">

<div class="form-box">

<div class="Heading">

<h2>Registration Form</h2>

</div>

<form class="input-group" action="connectdiploma.php" method="post">

<label class="form-label">Enter Name</label>

<input type="text" placeholder="Enter Your Name" id="Name" name="Name" required>

<br>

<div id="errorname"></div>

<label class="form-label">Enter Email</label>

<input type="email" placeholder="Enter Your Email" id="Email" name="Email" required>

<br>

<label class="form-label">Enter Mobile No</label>

<input type="number" placeholder="Enter Your Mobile" id="MobileNo" name="MobileNo" required>

<div class="errormob"></div>

<br>

<label class="form-label">Enter Password</label>

<input type="password" placeholder="Enter Password Here" id="pwd" name="pwd" required>

<br><br>

<label class="form-label" style="margin-right: 20px;">Select Year</label>

<select name="year" id="year">

<option value="First Year">First Year</option>

<option value="Second Year">Second Year</option>

<option value="Third Year">Third Year</option>

</select>

<br><br>

<label class="form-label">Select Course</label>

<select name="course" id="course">

<option value="Languages">Languages</option>

<option value="Web Technology">Web Technology</option>

<option value="Data Structure">Data Structure</option>

</select>

<div class="button-container">

<button type="submit" class="submit-btn" onclick="savedata()">Register</button>

<button type="button" class="back-btn" onclick="back()">Back</button>

</div>

</form>

</div>

</div>

</body>

</html>

**Output of the Project**

**Index Page GUI:-**

**A screenshot of a computer

Description automatically generated**

**Campus Page:-**

**A screenshot of a computer

Description automatically generated**

**About Us Page:-**

**A screenshot of a computer

Description automatically generated**

**Courses Page GUI:-**

**A screenshot of a computer

Description automatically generated**

**Certification And Programs Page:-**

**A person in a cap and gown holding a diploma

Description automatically generated**

**Courses Registration Form :-**

**A screenshot of a computer

Description automatically generated**

**Contact us Page :-**

**A screenshot of a computer

Description automatically generated**

**Learning Outcomes of this Project**

* **Understand Web Development Basics**: Learn how to build a basic website structure using HTML, design it with CSS, and make it interactive with JavaScript.
* **Create a Responsive Website**: Develop the skills to create a website that works well on different devices, such as smartphones, tablets, and computers, by applying responsive design techniques.
* **Enhance Problem-Solving Skills**: Improve my ability to solve coding issues, debug errors, and ensure that the website functions smoothly across various browsers and devices.
* **Design User-Friendly Websites**: Gain experience in organizing content clearly and designing a website that is easy to navigate and use for visitors.
* **Implement Interactivity and Validation with JavaScript**: Learn to use JavaScript not only for interactive elements like clickable events and course details but also to validate user input, ensuring the website functions correctly and securely.

**Applications of the Microproject**

* **University Information Hub**: The website can be used by universities to provide important information about courses and upcoming events, making it easier for students, faculty, and visitors to stay updated.
* **Responsive Design**: The website is designed to work well on different devices, ensuring that users can access it easily from smartphones, tablets, or desktops.
* **Interactive User Experience**: By using JavaScript, the website provides interactive features, such as clickable events and course details, which make the user experience more engaging.
* **Validation of User Input**: The website can include forms or other inputs where users can submit information, and JavaScript validation ensures that the input is correct and secure.
* **Foundation for Future Projects**: This project serves as a strong foundation for more advanced web development projects, as the skills learned—like HTML, CSS, JavaScript, and validation—can be applied to other websites or applications.

**Future Scope**

 **Adding More Features**: Future versions of the website can include additional features like user accounts, feedback forms, or integration with social media to enhance user engagement and interaction.

 **Improving Design**: The website can be updated with more advanced design elements and animations to make it even more visually appealing and user-friendly.

 **Expanding Content**: More sections can be added to provide information about various aspects of the university, such as student organizations, research projects, and community services.

 **Implementing a Database**: The website can be connected to a database to manage courses and events more efficiently. This would allow for dynamic updates without needing to change the code.

 **Mobile App Development**: There is potential to develop a mobile app version of the website, making it even more accessible for users who prefer using smartphones.

**Reference Links**

* <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference>
* <https://www.w3schools.com>
* <https://www.javatpoint.com/javascript-form-validation>
* <https://www.tutorialspoint.com/javascript/>