

# Assignment-1. (12/02/2025)

## Q :- Development of an Online Student Enrollment System Using HTML,CSS & JS ?

(Submitted By Yash Pandey , 12214802722 , AIML – II – B )

The **University Online Enrollment System** is a web-based application designed to streamline the course registration process for students. Built using **HTML, CSS, and JavaScript**, this system provides a user-friendly interface where students can explore available courses, check eligibility criteria, and complete their enrollment online. The project features an intuitive navigation bar, a responsive course table, and an interactive registration form with validation, ensuring a smooth and efficient user experience. By integrating Bootstrap components, the design is modern, mobile-friendly, and visually appealing without the need for extensive custom styling.

One of the key highlights of the project is its dynamic course selection feature, which allows students to choose from multiple courses, including **Web Technologies, ReactJS, Full Stack Development, and Python for Data Science**. The system also incorporates a well-structured footer section with useful links and social media icons, enhancing accessibility. This project demonstrates the power of front-end web development by combining **functionality, aesthetics, and user interactivity**, making it an ideal solution for universities and institutions looking to digitize their enrollment process.

### Available Courses

Course Name	Course Code	Duration	Eligibility	Fees
Web Technologies using HTML & CSS	CIE-356T-A1	11 Days	Basic Web Development Knowledge	\$500
Web Technologies using JS	CIE-356T-A2	40 Days	Basic JavaScript Knowledge	\$1000
ReactJS Frontend Development	CIE-356T-B1	30 Days	Basic JavaScript & HTML/CSS	\$1200
Full Stack Web Development	CIE-356T-C1	72 Days	Intermediate Web Development	\$2500
Python for Data Science	CIE-356T-D1	45 Days	Basic Python Knowledge	\$1500



The **University Online Enrollment System** is a web-based application designed to streamline the course registration process for students , The Different Languages Used To Design The System Are : -

- **HTML (HyperText Markup Language)** is the foundation of web development, used to structure the content of web pages. It provides elements like headings, paragraphs, images, tables, and forms, ensuring that information is organized and accessible. HTML uses tags to define different components, and with the latest version, **HTML5**, it supports multimedia, semantic elements, and improved accessibility features for modern web applications.
- **CSS (Cascading Style Sheets)** is responsible for the visual presentation of web pages. It allows developers to apply styles, colors, fonts, layouts, and animations to HTML elements, ensuring an attractive and responsive design. With **CSS3**, advanced features like flexbox, grid layout, and transitions enable a seamless user experience across different screen sizes, making websites more engaging and accessible.
- **JavaScript (JS)** is a dynamic programming language used to add interactivity and functionality to web pages. It enables features like form validation, content updates, animations, and event handling without reloading the page. Modern JavaScript frameworks and libraries, such as **React, Angular, and Vue.js**, further enhance web applications by offering efficient state management, reusable components, and fast rendering capabilities.
- **XML (Extensible Markup Language)** is a data format used for storing and transferring structured information between different systems. It is widely used in web services, APIs, and configuration files due to its readability and flexibility. Unlike HTML, which focuses on content presentation, XML is designed for data representation, allowing developers to organize and exchange data efficiently across platforms and applications.
- **DTD (Document Type Definition)** is used to define the structure and rules of an XML document, ensuring that the data follows a specific format. It specifies the allowed elements, attributes, and their relationships, helping in validation and consistency. DTDs can be either internal (within the XML file) or external (referenced separately), making XML data more standardized and interpretable across different applications.

## 1. Index.html File

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

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

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

  <title>University Online Enrollment</title>

</head>

<body>

  <header class="bg-dark text-white py-3">

    <div class="container d-flex align-items-center justify-content-center">

      <h1 class="h3 mb-0 flex-grow-1 text-center">University Online Enrollment System</h1>

    </div>

  </header>

  <nav class="navbar navbar-expand-lg navbar-dark bg-secondary">

    <div class="container">

      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav">

        <span class="navbar-toggler-icon"></span>

      </button>

      <div class="collapse navbar-collapse" id="navbarNav">

        <ul class="navbar-nav">

          <li class="nav-item"><a class="nav-link" href="index.html">Home</a></li>

          <li class="nav-item"><a class="nav-link" href="courses.html">Courses</a></li>

          <li class="nav-item"><a class="nav-link" href="registration.html">Registration</a></li>

        </ul>

      </div>

    </div>

  </nav>

</body>

</html>
```



```
        <li class="nav-item"><a class="nav-link" href="contact.html">Contact Us</a></li>
    </ul>
</div>
</div>
</nav>
```

```
<section class="container mt-4">
    <h2 class="text-center">Welcome to the Online Enrollment System</h2>
    <p class="text-center">Welcome to our University Online Enrollment System! Here, you
can easily explore a wide range of courses tailored to different skill levels. Join us today and
take the next step in your learning journey with ease!</p>
    <div id="course-list" class="table-responsive"></div>
</section>
```

```
<section class="container my-4">
    <h3 class="mb-3">Available Courses</h3>
    <div class="table-responsive">
        <table class="table table-bordered table-striped">
            <thead class="table-dark">
                <tr>
                    <th>Course Name</th>
                    <th>Course Code</th>
                    <th>Duration</th>
                    <th>Eligibility</th>
                    <th>Fees</th>
                </tr>
            </thead>
            <tbody>
                <tr><td>Web Technologies using HTML & CSS</td><td>CIE-356T-A1</td><td>11
Days</td><td>Basic Web Development Knowledge</td><td>$500</td></tr>
```

```
<tr><td>Web Technologies using JS</td><td>CIE-356T-A2</td><td>40
Days</td><td>Basic JavaScript Knowledge</td><td>$1000</td></tr>

<tr><td>ReactJS Frontend Development</td><td>CIE-356T-B1</td><td>30
Days</td><td>Basic JavaScript & HTML/CSS</td><td>$1200</td></tr>

<tr><td>Full Stack Web Development</td><td>CIE-356T-C1</td><td>72
Days</td><td>Intermediate Web Development</td><td>$2500</td></tr>

<tr><td>Python for Data Science</td><td>CIE-356T-D1</td><td>45
Days</td><td>Basic Python Knowledge</td><td>$1500</td></tr>
```

```
</tbody>
```

```
</table>
```

```
</div>
```

```
</section>
```

```
<section class="container mt-5 mb-5">
```

```
<h3 class="text-center mb-5">Enrollment Form</h3>
```

```
<form id="enrollment-form" class="row g-3 bg-light p-4 rounded shadow"
onsubmit="return validateForm()">
```

```
<div class="col-md-6">
```

```
<label for="student-name" class="form-label">Student Name:</label>
```

```
<input type="text" class="form-control" id="student-name" name="student-name"
required>
```

```
</div>
```

```
<div class="col-md-6">
```

```
<label for="email" class="form-label">Email:</label>
```

```
<input type="email" class="form-control" id="email" name="email" required>
```

```
</div>
```

```
<div class="col-md-6">
```

```
<label for="mobile" class="form-label">Mobile Number:</label>
```

```
<input type="number" class="form-control" id="mobile" name="mobile" required>
```

```
</div>
```

```
<div class="col-md-6">
```

```
<label for="course" class="form-label">Select Course:</label>

<select id="course" class="form-select" name="course"
onchange="showAdditionalFields()" required>

  <option value="">Select a course</option>

  <option value="web-tech">Web Technologies using HTML & CSS</option>

  <option value="js-tech">Web Technologies using JS</option>

  <option value="react-js">ReactJS Frontend Development</option>

  <option value="full-stack">Full Stack Web Development</option>

  <option value="python-ds">Python for Data Science</option>

</select>

</div>

<div class="col-12 text-center">

  <button type="submit" class="btn btn-primary w-50">Submit</button>

</div>

</form>

</section>

<footer class="bg-dark text-white text-center py-4">

  <div class="container">

    <div class="mb-3">

      <a href="https://github.com/YashPandey1405" class="text-white me-3">    </a>

      <a href="https://www.linkedin.com/in/yashpandey29/" class="text-white">    </a>

    </div>    <p class="mb-2">© MAIT Private Limited</p>

    <div>

      <a href="#" class="text-white text-decoration-none me-3">Privacy</a>

      <a href="#" class="text-white text-decoration-none">Terms</a>

    </div>

  </div>

</div>

</body>

</html>
```

## 2. Styles.css File

```
body {  
    font-family: Arial, sans-serif;  
    margin: 0; padding: 0;  
    background: #f4f4f9;  
}  
  
header, nav ul {  
    background: #333;  
    color: white; text-align: center;  
    padding: 20px 0;  
}  
  
.logo { width: 50px; height: 50px; }  
h1 { font-size: 2em; }  
  
nav ul li {  
    display: inline;  
    margin: 10px;  
}  
  
nav ul li a {  
    color: white;  
    text-decoration: none;  
    padding: 10px 20px;  
    font-size: 1.2em;  
}  
  
section { padding: 20px; }  
h2 { color: #333; }  
table {  
    width: 100%;  
    border-collapse: collapse;
```



```
margin-top: 20px; border: 1px solid #ddd;
}
th, td {
padding: 10px;
text-align: left;
border: 1px solid #ddd;
}
```

### 3. Script.js File

```
function validateForm() {
var email = document.getElementById("email").value;
var regex = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;
if (!regex.test(email)) {
alert("Please enter a valid email address.");
return false;
}
alert("Enrollment Successful!");
return true;
}

function showAdditionalFields() {
var course = document.getElementById("course").value;
var additionalFields = document.getElementById("additional-fields");
additionalFields.innerHTML = course === "web-tech" ? "<label
for='skills'>Skills:</label><input type='text' id='skills' name='skills' placeholder='e.g., HTML,
CSS' required>"
: course === "js-tech" ? "<label for='experience'>Experience:</label><input type='text'
id='experience' name='experience' placeholder='e.g., JavaScript knowledge' required>" : "";
}
```



```

function loadCourses() {
    var xhr = new XMLHttpRequest();
    xhr.open("GET", "courses.xml", true);
    xhr.onreadystatechange = function () {
        if (xhr.readyState == 4 && xhr.status == 200) {
            var xmlDoc = xhr.responseXML;
            var courses = xmlDoc.getElementsByTagName("course");
            var courseTable =
"<table><tr><th>Name</th><th>Code</th><th>Duration</th><th>Eligibility</th><th>Fees<
/th></tr>";
            for (var i = 0; i < courses.length; i++) {
                courseTable += "<tr><td>" +
courses[i].getElementsByTagName("name")[0].childNodes[0].nodeValue + "</td>";
                courseTable += "<td>" +
courses[i].getElementsByTagName("code")[0].childNodes[0].nodeValue + "</td>";
                courseTable += "<td>" +
courses[i].getElementsByTagName("duration")[0].childNodes[0].nodeValue + "</td>";
                courseTable += "<td>" +
courses[i].getElementsByTagName("eligibility")[0].childNodes[0].nodeValue + "</td>";
                courseTable += "<td>" +
courses[i].getElementsByTagName("fees")[0].childNodes[0].nodeValue + "</td></tr>";
            }
            courseTable += "</table>";
            document.getElementById("course-list").innerHTML = courseTable;
        }
    };
    xhr.send();
}

```

#### 4. Courses.xml File

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE courses SYSTEM "courses.dtd">
<courses>
  <course>
    <name>Web Technologies using HTML & CSS</name>
    <code>CIE-356T-A1</code>
    <duration>11 Days</duration>
    <eligibility>Basic Web Development Knowledge</eligibility>
    <fees>500</fees>
  </course>

  <course>
    <name>Web Technologies using JS</name>
    <code>CIE-356T-A2</code>
    <duration>40 Days</duration>
    <eligibility>Basic JavaScript Knowledge</eligibility>
    <fees>1000</fees>
  </course>

  <course>
    <name>ReactJS Frontend Development</name>
    <code>CIE-356T-B1</code>
    <duration>30 Days</duration>
    <eligibility>Basic JavaScript & HTML/CSS</eligibility>
    <fees>1200</fees>
  </course>

  <course>
```



```
<name>Full Stack Web Development</name>
<code>CIE-356T-C1</code>
<duration>72 Days</duration>
<eligibility>Intermediate Web Development</eligibility>
<fees>2500</fees>
</course>

<course>
  <name>Python for Data Science</name>
  <code>CIE-356T-D1</code>
  <duration>45 Days</duration>
  <eligibility>Basic Python Knowledge</eligibility>
  <fees>1500</fees>
</course>
</courses>
```

## 5. Courses.dtd File

```
<!ELEMENT courses (course+)>
<!ELEMENT course (name, code, duration, eligibility, fees)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT code (#PCDATA)>
<!ELEMENT duration (#PCDATA)>
<!ELEMENT eligibility (#PCDATA)>
<!ELEMENT fees (#PCDATA)>
```

# Home Page UI :-



## University Online Enrollment System

[Home](#) [Courses](#) [Registration](#) [Contact Us](#)

### Welcome to the Online Enrollment System

Welcome to our University Online Enrollment System! Here, you can easily explore a wide range of courses tailored to different skill levels, from beginner to advanced. Our platform allows you to conveniently browse available programs, check course details, and enroll in just a few simple steps. Whether you're looking to enhance your technical expertise, start a new career path, or upgrade your existing skills, we have the right course for you. Join us today and take the next step in your learning journey with ease!

### Available Courses

Course Name	Course Code	Duration	Eligibility	Fees
Web Technologies using HTML & CSS	CIE-356T-A1	11 Days	Basic Web Development Knowledge	\$500
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Python for Data Science	CIE-356T-D1	45 Days	Basic Python Knowledge	\$1500

### Enrollment Form

Student Name:

Email:

Mobile Number:

Select Course:

Select a course



Submit



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## Filling The Enrollement Form :-

### Enrollment Form

Student Name:  
Yash Pandey

Email:  
pandeyyash041@gmail.com

Mobile Number:  
8527659707


Select Course:  
Web Technologies using HTML & CSS

Skills: MERN Stack Developer

Submit

## Submitting The Enrollement Form :-



 I am **Yash Pandey (12214802722)** , a passionate learner with a keen interest in web development and programming. Through this project, I have gained hands-on experience with technologies like HTML, CSS, JavaScript, and XML, enhancing my understanding of structured data and dynamic web applications. I am always eager to explore new technologies and improve my technical skills.