- Design a static website for the full stack java course project topic selected by your group

CODE:

Index.html

```
<!-- • Design a static website for the full stack java course project topic selected by your group -->
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Edu Nexus</title>
    <link rel="stylesheet" href="style.css">
    <script src="script.js"></script>
</head>
<body>
    <header>
        <div id="title">EduNexus</div>
        <nav><ul>
            <li><a href="index.html">Home</a></li>
            <li><a href="About us.html">About us</a></li>
            <li><a href="contact us.html">Contact us</a></li>
        </ul></nav>
    </header>
    <main>
        <img src="Banner.png" alt="Image">
        <p> <b>EduNexus</b> is an all-in-one digital platform designed to
be the central hub for a college campus. It aims to solve the problem
of scattered communication by bringing all essential activities and
information into one place for students and faculty. <br><b>Key
features include:</b>


</p>
<ul>
```

A centralized Announcements board for official news.
A shared Resource library for academic notes and papers.
Modules for managing student Committees and campus Events.
A Discussion Forum for students to ask questions and receive help.

In essence, EduNexus connects the entire campus community, making information easily accessible and campus life more organized and engaging.

<button id="clickme" onclick="showMessage()">Click me</button>

</main>
<footer>© 2025 EduNexus</footer>
</body>
</html>

Contact us.html

<!DOCTYPE html>
<html>
<head>
<title>Contact us</title>
</head>
<body>
<h2>Edunexus</h2>
<h4>Email : support.edunexus@gmail.com</h4>
<h4>Contact : 823738XXXX</h4>
<h4>Address : Vidyavardhini College of Engineering and technology,Vasai Road</h4>
</body>
</html>

About us.html

<!DOCTYPE html>

```
<html >
<head>
<title>About us</title>
</head>
<body>
<h2>About Edunexus , <br>The digital hub for Vidyavardhini's
College of Engineering and technology.</h2>

<p style="font-size: larger;">In a dynamic campus environment,
communication and access to information are key to success. <br> We
noticed a need for a single, unified platform where students, faculty,
and administration could connect seamlessly. <br>Edunexus was born from
this vision.

Our Mission is to foster a more integrated and collaborative campus
ecosystem. <br>We provide the tools to centralize communication,
simplify access to academic resources, and enhance student engagement
in campus life. <br>We believe that by bringing everyone together in
one digital space, we can unlock our community's full potential.

From official announcements and event registrations to committee
management and a shared library of academic notes, Edunexus is designed
to be your one-stop portal for everything happening on campus.

Join us in building a smarter, more connected community. </p>
</body>
</html>
```

Style.css

```
header{
    width: 98vw;
    height: 120px;
```

```
    border: 5px solid darkblue;
    border-radius: 5px;
    background: linear-gradient(to right, cyan, lightblue);
    padding-bottom: 10px;

}
a{
    text-decoration: none;
}
nav ul{
    font-size: xx-large;
    list-style: none;
    text-decoration: none;
    display: flex;
    flex-direction: row;
    justify-content: space-around;
}
#title{

    display: flex;
    align-items: center;
    justify-content: center;
    font-size: 50px;
}

main img{
    margin: 5px;
    width: 98vw;
    border: 2px solid black;
}
#button{
```

```
    display: flex;
    justify-content: center;
}
#clickme{
    text-align: center;
    font-size: larger;
    border: 2px solid blue;
    border-radius: 5px;
    background-color: lightblue;
}
#clickme:hover{
    background-color:greenyellow;
}
#clickme:active{
    background-color: aquamarine;
}
```

Script.js

```
function showMessage(){
    const message = document.getElementById("message");
    message.textContent = "Thankyou for visiting EduNexus..";
}
```

- Program using Java Script to validate the email address entered by the user (check the presence of “@” & “.” character. If this character is missing, the script should display an alert box reporting the error and ask the user to re-enter it again. Also ensure the same for mobile number to be 10 digits long).

CODE:

Index.html

```
 <!DOCTYPE html>
<html lang="en">
<head>
    <title>Validation</title>
```

```
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <form>
        <h2>Email and Mobile Number Validation</h2>
        Email: <input type="text" id="email" placeholder="Enter your email" required="true">
<button id="check_email" type="button" onclick="emailValidation()">check</button><br><br>
        Contact : <input type="text" id="mobile" placeholder="Enter your Mobile number" required="true"><button type="button" id="check_mobile" onclick="mobileValidation()">check</button> <br> <br>
        <button type="submit" onclick="message()">Submit</button>
    </form>
    <script src="script.js"></script>
</body>
</html>
```

Style.css

```
form{
    font-size: large;
    align-self: center;
    width: 50vw;
    height: auto;
    border: 2px solid black;
    padding: 10px;
}
#email{
    border: 3px solid black;
}
#mobile{
    border: 3px solid black;
}
```

Script.js

```
function emailValidation(){
const emailInput = document.getElementById("email");
const email = emailInput.value;
if(email.indexOf("@")===-1 || email.indexOf(".")===-1 )
{ alert("Invalid email address : please include '@' and '.'");
    emailInput.style.borderColor = "Red";

}
else{
    // alert("valid email address..");
    emailInput.style.borderColor = "Green";

}
}
function mobileValidation(){
const mobileInput = document.getElementById("mobile");
const mobile = mobileInput.value
let isValid = true;
if(mobile.length!==10){
    alert("Mobile number must be exactly 10 digits");
    mobileInput.style.borderColor = "Red";

}
else{
    for(let i=0;i < mobile.length;i++){
        if(mobile[i]< '0' || mobile[i]> '9'){
            alert("Mobile number must contain only digits..");
            mobileInput.style.borderColor = "Red";
            isValid = false;
```

```
        }
    }
if(isValid){
// alert("Valid Mobile number...");
mobileInput.style.borderColor = "Green";
}

}
}

function message(){
    emailValidation();
    mobileValidation();
    alert("Thankyou for using Validation Sysytem..");
}
```

- Program using Java Script to implement text animation on the web browser.

CODE :

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Animation</title>
    <style>
    #title{
    position: absolute;
    top: 50px;
    left: 20px;
    font-size: large;
    text-align: center;
    width: 100px;
```

```
    border: 2px solid darkblue;
    border-radius: 5px;
    background:linear-gradient(to right, cyan, lightblue);
}
    </style>
</head>
<body>
    <header>
        <div id="title">EduNexus</div>
    </header>
<script>
const title = document.getElementById("title");
let pos = 0 ;

function movetitle() {
pos += 2; // move right by 2px
title.style.left = pos + "px";
// stop when it reaches 1400px
if (pos < 1400) {
requestAnimationFrame(movetitle);
}
}
movetitle(); // start animation
</script>

</body>
</html>
```

- Create a webpage using react Hooks that displays four buttons namely, “Red”, “Blue”, “Green”, “Yellow”. On clicking any of these buttons, the code displays the message that you have selected that particular color.

Code (App.js)

```
import React, { useState } from 'react';

function App() {

const [selectedColor, setSelectedColor] = useState('');

const handleColorClick = (color) => {

setSelectedColor(color);

};

return (

<div style={{ textAlign: 'center', marginTop: '50px' }}>

<h2>Select a Color</h2>

<div style={{ marginBottom: '20px' }}>

<button onClick={() => handleColorClick('Red')} style={{ margin: '5px',

backgroundColor: 'red', color: 'white', padding: '10px 20px' }}>Red</button>

<button onClick={() => handleColorClick('Blue')} style={{ margin: '5px', backgroundColor:
'blue', color: 'white', padding: '10px 20px' }}>Blue</button>

<button onClick={() => handleColorClick('Green')} style={{ margin: '5px', backgroundColor:
'green', color: 'white', padding: '10px 20px' }}>Green</button>

<button onClick={() => handleColorClick('Yellow')} style={{ margin: '5px',
backgroundColor: 'gold', color: 'black', padding: '10px 20px' }}>Yellow</button>

</div>

{selectedColor && (

<h3>You have selected <span style={{ color:
selectedColor.toLowerCase() }}>{selectedColor}</span>.</h3>

)}

</div>

);}

export default App;
```

- To write a JavaScript program using the Document Object Model (DOM) that changes the background color of a web page automatically after every 5 seconds.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Background Color Change</title>
    <style>
        #currentColor{
            font-size: 50px;
            display: flex;
            height: 100vh;
            align-items: center;
            justify-content: center;
        }
    </style>
</head>
<body>
    <h2>Background Color will change after every 5 seconds...</h2>
    <div id="currentColor"></div>
    <script>
        const body = document.body;
        const color = ["lightcoral","lightblue","lightgray","lightsalmon"];
        let index = 0;

        function color_change(){

            body.style.backgroundColor = color[index];
            document.getElementById("currentColor").innerText = color[index];
            index = (index + 1) % color.length ;
```

```
    }
    setInterval(color_change,5000);
  </script>
</body>
</html>
```

- Develop a registration form using HTML and JavaScript that validates user input such as name (only alphabets), password (minimum 8 characters), and age (between 18–60).

CODE:

```
<!-- • Develop a registration form using HTML and JavaScript that validates user input such as name (only alphabets), password (minimum 8 characters), and age (between 18–60). -->

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Registration form</title>
  <style>
    form{
      border: 3px solid black;
      width: 50vw;
      height: 50vh;
      padding: 10px;
    }
  </style>
</head>
<body>
  <form onsubmit="return check()" >
    <h2>Registration form</h2>
      Name: <input type="text" id="name" placeholder="Enter your name" required > <br><br>
      password : <input type="password" id="password" required  placeholder="Enter Password"> <br> <br>
```

```
    age : <input type="text" id="age" placeholder="Enter your age" required> <br><br>
    <button type="submit">Submit</button>
</form>
<script>
    function check(){
    const password = document.getElementById("password").value;
    let age = document.getElementById("age").value;
    const name = document.getElementById("name").value;
    isValid = true;

    for( let i =0 ; i < name.length ; i++){
        const char = name[i];
        if(!((char >= 'A' && char <= 'Z') || (char >= 'a' && char <= 'z' ) || char ===" " )){
        alert("Name should contain only characters..")
        isValid = false;
        break;
    }
    }
    if(password.length < 8){
        alert("Password should be greater than 8 characters..");
        isValid = false;
    }

    age = parseInt(age);
    if(isNaN(age) || age < 18 || age > 60){
            alert("Age should be between 18 to 60");
            isValid = false;
    }
    if(isValid){
        alert("Thank you for Filling Registation form...");
} }
```

```
    </script>
</body>
</html>
```

- Program using JavaScript to display the current date and time dynamically on the web page and update it every second.

CODE:

<!-- • Program using JavaScript to display the current date and time dynamically on the web page and update it every second. -->

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Current Date and Time</title>
    <style>
        #datetime {
            font-size: 20px;
            font-weight: bold;
        }
    </style>
</head>
<body>
    <h1>Current Date and Time</h1>
    <div id="datetime"></div>

    <script>
        function updateDateTime() {
            const datetime = document.getElementById('datetime');
            const now = new Date();
            const currentDateTime = now.toString(); // simple date and time string
            datetime.textContent = currentDateTime;
        }
```

```
        // Initial call
        updateDateTime();

        // Update every second
        setInterval(updateDateTime, 1000);
    </script>
</body>
</html>
```

- Write a JavaScript program to count the number of vowels in a string entered by the user and display the result on the webpage.

  CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Vowel Counter</title>
    <style>

        input, button {
            padding: 5px 10px;
            font-size: 20px;
            margin: 5px;
        }
        #result {
            margin-top: 20px;
            font-size: 25px;
        }
    </style>
</head>
<body>
    <h1>Vowel Counter</h1>
```

```
    <input type="text" id="string" placeholder="Enter your string here">
    <button onclick="countVowels()">Count Vowels</button>

    <div id="result"></div>

    <script>
        function countVowels() {
            const str = document.getElementById("string").value;
            let count = 0;

            for (let i = 0; i < str.length; i++) {
                if (str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o' || str[i] == 'u' || str[i] == 'A' || str[i] == 'E' || str[i] == 'I' ||str[i] == 'O' ||str[i] == 'U' ) {
                    count++;
                }
            }

            document.getElementById("result").textContent = `Number of vowels: ${count}`;
        }
    </script>
</body>
</html>
```

- Design a feedback form that uses JavaScript to ensure that no input field is left blank before submission.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Feedback form</title>
    <style>
        form{
```

```
        border: 3px solid black;
        width: 50vw;
        height: 50vh;
        padding: 10px;
    }
  </style>
</head>
<body>
  <form onsubmit="return check()" >
    <h2>Registration form</h2>
    Name: <input type="text" id="name" placeholder="Enter your name"  > <br><br>
    Email : <input type="email" id="email"   placeholder="Enter your email"> <br> <br>
                    Feedback: <textarea rows="5" id="feedback" placeholder="Write Feedback"></textarea> <br><br>
    <button type="submit">Submit</button>
  </form>
  <script>
    function check(){
    const name = document.getElementById("name").value;
    const email = document.getElementById("email").value;
    const feedback = document.getElementById("feedback").value;

    if (name === "" || email === "" || feedback === "") {
        alert("All fields are required!");
        return false; // Prevent form submission
      }
    else{
      alert("Thank you for giving your valuable Feedback..");
    }

    }
  </script>
```

</body>

</html>

- Program using JavaScript to create a simple calculator that performs addition, subtraction, multiplication, and division based on user input.

CODE:

<!-- • Program using JavaScript to create a simple calculator that performs addition, subtraction, multiplication, and division based on user input. -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>calculator</title>

<style>

#calculator{

position: absolute;

left: 40vw;

border: 2px solid black;

width: 300px;

height: auto;

font-size: large;

padding: 10px;

}

button{

font-size: 20px;

padding-top: 5px;

}

</style>

</head>

<body>

 <h2>Simple calculator</h2>

```
<input type="number" id="first" placeholder="Enter First Number" required="true"><br>
<input type="number" id="second" placeholder="Enter Second Number" required="true"><br><br>
<button id="Add" onclick="calculate('+')">+</button>
<button id="Sub" onclick="calculate('-')">-</button>
<button id="Div" onclick="calculate('/')">/</button>
<button id="Multi" onclick="calculate('*')">*</button> <br><br>
Result : <div id="result"></div>
</div>
<script>
function calculate(operation) {
    const num1Input = document.getElementById("first");
    const num2Input = document.getElementById("second");

    // Check if inputs are empty
    if(num1Input.value === "" || num2Input.value === "") {
        alert("Please enter both numbers.");
        return;
    }

    const num1 = Number(document.getElementById("first").value);
    const num2 = Number(document.getElementById("second").value);
    let result;
    switch(operation) {
        case '+':
            result = num1 + num2;
            break;
        case '-':
            result = num1 - num2;
            break;
        case '*':
            result = num1 * num2;
```

```
                break;
            case '/':
                if(num2 === 0){
                    result = "Division by Zero is not possible..";
                }
                else{
                    result = num1 / num2;
                }
                break;
        }
        document.getElementById("result").innerText = result;
    }
  </script>
</body>
</html>
```

- Write a JavaScript program that displays a welcome message to the user depending on the current time (Good Morning, Good Afternoon, Good Evening).

CODE:

```
<!DOCTYPE html>
<html >
<head>

  <title>Welcome Message</title>
</head>
<body>
  <h1 id="welcomeMessage"></h1>

  <script>
    const welcomeMessage =  document.getElementById("welcomeMessage")
    // Get the current hour
    const now = new Date();
    const hour = now.getHours(); // 0 to 23
```

```
        // Initialize message variable
        let message = "";

        // Determine the message based on the hour
        if (hour >= 5 && hour < 12) {
            message = "Good Morning!";
        } else if (hour >= 12 && hour < 18) {
            message = "Good Afternoon!";
        } else {
            message = "Good Evening!";
        }

        // Display the message in the h1 element
        welcomeMessage.innerText = message;
    </script>
</body>
</html>
```