

1. Create a Student Admission Form using JavaScript DOM manipulation and validation; Initialize Git for version control.

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Admission Form</title>
  <style>
    /* General Body Styling - Keep for centering and basic font */
    body {
      font-family: sans-serif; /* Simpler default font */
      background-color: #f3f4f6;
      display: flex;
      justify-content: center;
      align-items: center;
      min-height: 100vh;
      padding: 20px;
      box-sizing: border-box;
      margin: 0;
    }

    /* Form Container - Basic centering and width */
    .form-container {
      background-color: #fff;
      padding: 20px; /* Reduced padding */
      border-radius: 8px;
      box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1); /* Lighter shadow */
      width: 100%;
      max-width: 450px; /* Slightly smaller max width */
      border: 1px solid #ddd; /* Lighter border */
    }

    /* Form Title - Basic alignment and font size */
    .form-title {
      font-size: 24px;
      text-align: center;
      margin-bottom: 20px;
      color: #333;
    }

    /* Form Group - Basic spacing between fields */
    .form-group {
      margin-bottom: 15px;
    }
  </style>
</head>
<body>
  <div class="form-container">
    <div class="form-title">
      Student Admission Form
    </div>
    <div class="form-group">
      <input type="text" />
    </div>
  </div>
</body>
</html>
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/* Labels - Keep them block level for consistent layout */
.form-label {
    display: block;
    margin-bottom: 5px;
    font-weight: bold;
    color: #555;
}

/* Inputs and Select - Minimal styling, mostly browser default */
.form-input,
.form-select {
    width: 100%;
    padding: 8px;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box; /* Ensures padding doesn't add to total
width */
}

/* Checkbox Group - Basic flex for alignment */
.checkbox-group {
    display: flex;
    align-items: center;
    margin-bottom: 15px;
}

/* Checkbox Label - Simple spacing */
.checkbox-label {
    margin-left: 8px;
}

.checkbox-label a {
    color: #007bff; /* Standard link blue */
    text-decoration: none;
}

.checkbox-label a:hover {
    text-decoration: underline;
}

/* Submit Button - Basic, relies on browser default look more */
.submit-button {
    width: 100%;
    padding: 10px;
    background-color: #007bff; /* Standard button blue */
    color: white;
    border: none;
    border-radius: 4px;
}

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        cursor: pointer;
        font-size: 16px;
    }

    .submit-button:hover {
        background-color: #0056b3; /* Darker blue on hover */
    }

    /* Error Message Styling - Essential for feedback */
    .error-message {
        color: red;
        font-size: 12px;
        margin-top: 5px;
    }

    /* Success Message Styling - Essential for feedback */
    #success-message {
        margin-top: 20px;
        padding: 10px;
        border-radius: 4px;
        background-color: #d4edda; /* Light green */
        color: #155724; /* Dark green text */
        text-align: center;
        /* display: none; Initially hidden */
    }

    /* Hide utility class - Essential for JavaScript functionality */
    .hidden {
        display: none;
    }
</style>
</head>
<body>

    <div class="form-container">
        <h2 class="form-title">Student Admission Form</h2>

        <form id="admissionForm">
            <!-- Full Name Input -->
            <div class="form-group">
                <label for="fullName" class="form-label">Full Name</label>
                <input type="text" id="fullName" class="form-input"
placeholder="John Doe">
                <p id="fullNameError" class="error-message"></p>
            </div>

            <!-- Email Input -->
            <div class="form-group">

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        <label for="email" class="form-label">Email Address</label>
        <input type="email" id="email" class="form-input"
placeholder="john.doe@example.com">
        <p id="emailError" class="error-message"></p>
    </div>

    <!-- Date of Birth Input -->
    <div class="form-group">
        <label for="dateOfBirth" class="form-label">Date of
Birth</label>
        <input type="date" id="dateOfBirth" class="form-input">
        <p id="dateOfBirthError" class="error-message"></p>
    </div>

    <!-- Course Selection -->
    <div class="form-group">
        <label for="course" class="form-label">Select Course</label>
        <select id="course" class="form-select">
            <option value="">-- Please Select --</option>
            <option value="computer_science">Computer Science</option>
            <option value="business_administration">Business
Administration</option>
            <option value="electrical_engineering">Electrical
Engineering</option>
            <option value="arts_humanities">Arts & Humanities</option>
        </select>
        <p id="courseError" class="error-message"></p>
    </div>

    <!-- Terms and Conditions Checkbox -->
    <div class="checkbox-group">
        <input type="checkbox" id="terms" class="form-checkbox">
        <label for="terms" class="checkbox-label">
            I agree to the <a href="#">terms and conditions</a>
        </label>
        <p id="termsError" class="error-message" style="margin-left:
8px;"></p>
    </div>

    <!-- Submit Button -->
    <div class="form-group">
        <button type="submit" class="submit-button">
            Submit Admission
        </button>
    </div>
</form>

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<!-- Success Message -->
    <div id="success-message" class="hidden">
        <p>Form submitted successfully! We'll be in touch soon.</p>
    </div>
</div>

<script>
    // Get the form element
    const admissionForm = document.getElementById('admissionForm');
    // Get the success message element
    const successMessage = document.getElementById('success-message');

    // Add an event listener for form submission
    admissionForm.addEventListener('submit', function(event) {
        // Prevent the default form submission behavior (which would
        reload the page)
        event.preventDefault();
        // Call the validateForm function and check its return value
        if (validateForm()) {
            // If validation passes, display the success message
            successMessage.classList.remove('hidden'); // Show the success
message

            admissionForm.reset(); // Optionally reset the form fields
        } else {
            // If validation fails, ensure the success message is hidden
            successMessage.classList.add('hidden');
        }
    });

    /**
     * Validates all form fields.
     * @returns {boolean} - True if all fields are valid, false otherwise.
     */
    function validateForm() {
        let isValid = true; // Flag to track overall form validity

        // Get references to all input fields and their error message
        paragraphs
        const fullNameInput = document.getElementById('fullName');
        const emailInput = document.getElementById('email');
        const dateOfBirthInput = document.getElementById('dateOfBirth');
        const courseSelect = document.getElementById('course');
        const termsCheckbox = document.getElementById('terms');

        const fullNameError = document.getElementById('fullNameError');
        const emailError = document.getElementById('emailError');
        const dateOfBirthError =
document.getElementById('dateOfBirthError');

```

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const courseError = document.getElementById('courseError');
const termsError = document.getElementById('termsError');

// --- Full Name Validation ---
if (fullNameInput.value.trim() === '') {
    fullNameError.textContent = 'Full Name is required.';
    isValid = false;
} else {
    fullNameError.textContent = ''; // Clear error if valid
}

// --- Email Validation ---
const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/; // Basic email
regex
if (emailInput.value.trim() === '') {
    emailError.textContent = 'Email Address is required.';
    isValid = false;
} else if (!emailRegex.test(emailInput.value.trim())) {
    emailError.textContent = 'Please enter a valid email
address.';
    isValid = false;
} else {
    emailError.textContent = '';
}

// --- Date of Birth Validation ---
const dobValue = dateOfBirthInput.value; // Get the date string
(e.g., "YYYY-MM-DD")
if (dobValue === '') {
    dateOfBirthError.textContent = 'Date of Birth is required.';
    isValid = false;
} else {
    const selectedDate = new Date(dobValue);
    const today = new Date();
    if (selectedDate > today) {
        dateOfBirthError.textContent = 'Date of Birth cannot be in
the future.';
        isValid = false;
    } else {
        dateOfBirthError.textContent = '';
    }
}

// --- Course Selection Validation ---
if (courseSelect.value === '') {
    courseError.textContent = 'Please select a course.';
    isValid = false;
} else {

```

```

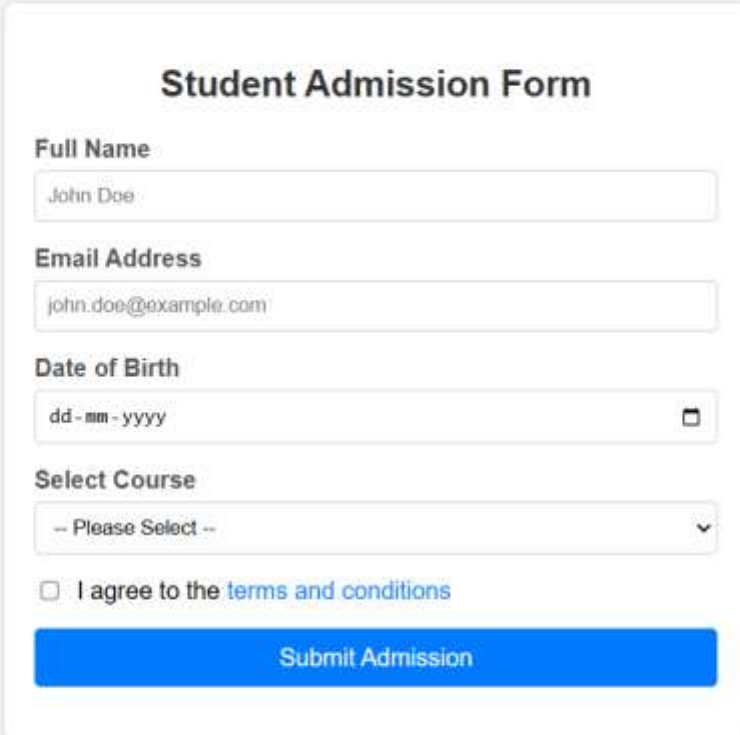
        courseError.textContent = '';
    }

    // --- Terms and Conditions Validation ---
    if (!termsCheckbox.checked) {
        termsError.textContent = 'You must agree to the terms and
conditions.';
        isValid = false;
    } else {
        termsError.textContent = '';
    }

    return isValid; // Return the overall validity status
}
</script>
</body>
</html>

```


OUTPUT:



Student Admission Form

Full Name

Email Address

Date of Birth
 

Select Course

☐ I agree to the [terms and conditions](#)

Student Admission Form

Full Name

John Doe

Full Name is required.

Email Address

john.doe@example.com

Email Address is required.

Date of Birth

dd-mm-yyyy



Date of Birth is required.

Select Course

– Please Select –



Please select a course.



I agree to the [terms and conditions](#)

You must agree to the terms and conditions.

Submit Admission

Student Admission Form

Full Name

John Doe

Email Address

john.doe@example.com

Date of Birth

dd-mm-yyyy



Select Course

– Please Select –



I agree to the [terms and conditions](#)

Submit Admission

Form submitted successfully! We'll be in touch soon.