**SEMINAR - HTML FORMS**

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#### Introduction

* HTML forms are essential for collecting user input and sending data to servers.
* They play a major role in user interaction on the web, enabling input for user registrations, surveys, feedback forms, etc.

#### The <form> Element

* Acts as a container for form elements (like text fields, checkboxes, etc.).
* The <form> tag defines the form area and wraps all input elements.

#### Form Elements

**Text Fields**

* + <input type="text"> creates a single-line text input field.
  + Useful for basic text input like names, emails, addresses.

**Radio Buttons**

* + <input type="radio"> allows selection of one option from a list.
  + Useful for questions with mutually exclusive answers (e.g., "Choose your favorite color").

**Checkboxes**

* + <input type="checkbox"> allows multiple options to be selected.
  + Useful for questions with multiple valid answers (e.g., "Select your hobbies").

**Submit Button**

* + <input type="submit"> submits form data to a server.
  + action attribute in the <form> tag specifies the server-side script for processing input data.

**Labels**

* + <label> tag associates labels with input fields, enhancing accessibility for screen readers and improving clickability for checkboxes and radio buttons.

**Name Attribute**

* + Essential for identifying form data.
  + Without a name attribute, the data in an input field won’t be sent.

### Demonstration HTML Code

<!DOCTYPE html><html lang="en"><head>

<meta charset="UTF-8">

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

<title>Form Elements Example</title></head><body>

<h2>Basic HTML Form Example</h2>

<form action="/submit\_form" method="post">

<!-- Text Field -->

<label for="fname">First Name:</label>

<input type="text" id="fname" name="fname"><br><br>

<label for="lname">Last Name:</label>

<input type="text" id="lname" name="lname"><br><br>

<!-- Radio Buttons -->

<p>Choose your favorite language:</p>

<input type="radio" id="html" name="language" value="HTML">

<label for="html">HTML</label><br>

<input type="radio" id="css" name="language" value="CSS">

<label for="css">CSS</label><br>

<input type="radio" id="javascript" name="language" value="JavaScript">

<label for="javascript">JavaScript</label><br><br>

<!-- Checkboxes -->

<p>Select your vehicles:</p>

<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">

<label for="vehicle1">Bike</label><br>

<input type="checkbox" id="vehicle2" name="vehicle2" value="Car">

<label for="vehicle2">Car</label><br>

<input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">

<label for="vehicle3">Boat</label><br><br>

<!-- Submit Button -->

<input type="submit" value="Submit">

</form></body></html>

**OUTPUT:**

