

## Experiment 3

### 3. Program on HTML basic tags to create forms and UI elements.

#### 1. Document Setup:

- a. The document starts with `<!DOCTYPE html>`, which defines the document as an HTML5 document.
- b. `<html lang="en">`: Defines the language of the document (English in this case).
- c. `<head>` contains metadata about the document such as character set (UTF-8) and viewport settings for responsive design.

#### 2. Heading:

- a. Inside the `<body>`, the `<h1>` tag creates a top-level heading: HTML Form with UI Elements.

#### 3. Form:

- a. The `<form>` element specifies the form structure and sends form data via POST to a server-side script called `submit-form.php`.
- b. It contains multiple user input elements like text input, radio buttons, checkboxes, etc.

#### 4. Text Input (Name):

- a. `<label for="name">Name:</label>` creates a label for the name input field.
- b. `<input type="text" id="name" name="name" placeholder="Enter your name" required>` creates a text input for the user's name. The `required` attribute ensures that the field must be filled out before submitting the form.

#### 5. Email Input:

- a. `<label for="email">Email:</label>` creates a label for the email input.
- b. `<input type="email" id="email" name="email" placeholder="Enter your email" required>` creates an input field for the email, ensuring valid email format.

#### 6. Password Input:

- a. `<label for="password">Password:</label>` creates a label for the password input.
- b. `<input type="password" id="password" name="password" required>` creates a password input field, hiding characters as they are typed.

#### 7. Radio Buttons (Gender):

- a. `<label>Gender:</label>` creates a label for the gender options.
- b. The following radio buttons (`<input type="radio" ...>`) allow the user to select one option: Male, Female, or Other. Each radio button has a `value` attribute that will be sent upon form submission.

#### 8. Checkboxes (Hobbies):

- a. `<label>Hobbies:</label>` creates a label for the hobbies checkboxes.

- b. The checkboxes allow multiple selections (e.g., Reading, Traveling, Sports), each with a corresponding label.

#### 9. Dropdown Menu (Country):

- a. `<label for="country">Country:</label>` creates a label for the dropdown.
- b. `<select id="country" name="country">` creates a dropdown menu with options (United States, United Kingdom, Canada, India).

#### 10. Textarea (Message):

- a. `<label for="message">Message:</label>` creates a label for the message field.
- b. `<textarea id="message" name="message" rows="4" cols="50" placeholder="Enter your message here..."></textarea>` allows the user to enter multiple lines of text (message).

#### 11. Submit Button:

- a. `<input type="submit" value="Submit Form">` creates a submit button that sends the form data to the specified server script (submit-form.php).

Each element in this form has a label describing it, and most elements include attributes such as id, name, and required to control how the form works when submitted.

### Output:

The screenshot displays a web browser window with the address bar showing '127.0.0.1:5500/Ass3/index.html'. The page title is 'HTML Form with UI Elements'. The form contains the following elements:

- Name:** A text input field with the placeholder 'Enter your name'.
- Email:** A text input field with the placeholder 'Enter your email'.
- Password:** A text input field.
- Gender:** Three radio buttons labeled 'Male', 'Female', and 'Other'.
- Hobbies:** Three checkboxes labeled 'Reading', 'Traveling', and 'Sports'.
- Country:** A dropdown menu currently showing 'United States'.
- Message:** A text area with the placeholder 'Enter your message here...'.
- Submit Form:** A button labeled 'Submit Form'.

The browser's taskbar at the bottom shows the system clock as 18:07 on 24-10-2024, along with various application icons and network status indicators.