HTML5 Forms - Detailed Explanation

HTML5 forms help in collecting user inputs efficiently. Let's break down the form elements used in your code and understand their functionality.

1. <!DOCTYPE html>

This declaration defines the document as an HTML5 document.

<!DOCTYPE html>

It ensures that the browser correctly interprets HTML5 features.

2. <html lang="en">

The <html> tag represents the root of an HTML document. The lang attribute specifies the language of the document, which helps search engines and accessibility tools.

<html lang="en">

3. <head> Section

Contains metadata and links to styles or scripts.

<head>

```
<meta charset="UTF-8">
```

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

<title>ABOUT-FORMS IN HTML5</title>

</head>

- <meta charset="UTF-8"> ensures support for various character encodings.
- <meta name="viewport" content="width=device-width, initial-scale=1.0"> makes the page responsive.
- <title> defines the title of the webpage.

4. <body> Section

Contains the visible content of the webpage.

<body>

<h1>FORM TO APPLY FOR SOFTWARE DEVELOPMENT ENGINEER AT PAP_CORPORATION</h1>

• <h1> is the heading tag, used for the main title.

5. Username Input Field

<div>

```
<label for="username">Enter your Username</label>
```

<input id="username" type="text" placeholder="Enter Your Username">

</div>

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- <input id="username" type="text"> creates a text field for user input.
- placeholder="Enter Your Username" gives a hint inside the input field.

6. Radio Buttons (Gender Selection)

```
<div>
<label for="male">male</label>
<input type="radio" id="male" name="gender">
<label for="female">female</label>
<input type="radio" id="female" name="gender">
</div>
```

- <input type="radio"> creates a radio button.
- name="gender" ensures that only one option is selected at a time.
- <label> improves accessibility.

Issue in Original Code:

• Each radio button must have the same name attribute to work correctly as a group.

7. Textarea (Multiline Input Field)

```
<div>
<label for="comment">Enter your comments:</label>
<textarea name="comment" id="comment" rows="4" cols="50"></textarea>
</div>
```

- <textarea> allows users to enter multiple lines of text.
- rows="4" and cols="50" define the visible size of the textarea.
- <label for="comment"> provides a proper label.

Issue in Original Code:

• row and column should be rows and cols.

8. Dropdown (Select Field)

```
<div>
<label for="fruits">Select a fruit:</label>
<select name="fruits" id="fruits">
  <option value="banana">Banana</option>
  <option value="apple">Apple</option>
```

```
<option value="pineapple">Pineapple</option>
  <option value="orange">Orange</option>
  <option value="cherry">Cherry</option>
  </select>
</div>
```

- <select> creates a dropdown list.
- <option> defines each selectable item.
- value="banana" represents the internal value sent when the option is selected.
- <label for="fruits"> makes it accessible.

9. Issues in the Original Code

- <input> is a self-closing tag, so </input> is incorrect.
- Missing name attributes for radio buttons.
- Incorrect attributes (row and column instead of rows and cols).

10. Additional Improvements

You can add a submit button:

<div>

<button type="submit">Submit Application/button>

</div>

• <button type="submit"> submits the form data.

Conclusion

- Labels enhance accessibility.
- name attributes are essential for grouping inputs.
- Use proper attributes (rows, cols, name, etc.).
- input, textarea, and select help collect user data efficiently.

This structured guide will help you in future references while working with HTML forms!