• Web Development Assignment - Module-06

• Assignment - 1 •

Q.1 What is an HTML form ?

⇒ Forms in HTML are used to collect user input. The section of a web page that allows user to enter their data which will send to a server for processing and storage. Syntax - <form></form>

Q.2 What is the purpose of the <form> tag. ?

⇒ - <form> tag is to act as a container for interactive controls that collect user input..
- It serves as a container for various input elements like text fields, buttons, checkboxes, dropdown fields.

Q.3 What is the use of the action attribute in a form ?

⇒ The action attribute defines what should happen when the form is submitted.
Usually, the form data is sent to a file on the server when the user clicks on submit button.
It points to a server file such as .php, .js, .py or an API endpoint.

e.g. <form action="/action.php">
</form>.

Q.4 What is the use of the method attribute ?

⇒ The method attribute specifies the HTTP method to be used when submitting the form data.
• The default HTTP method when submitting form data is GET.

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Q.5 Name any five different <input> types.

⇒ i) Input type text

<input type = "text">

ii) Input type password

<input type = "password">

iii) Input type button

<input type = "button">

iv) Input type radio

<input type = "radio">

v) Input type checkbox

<input type = "checkbox">

Q.6 What is the role of the <label> tag?

⇒ - <label> is used to connect text with a form element
- It defines a label for several form elements.
- primarily to improve the accessibility and usability of web forms.

Q.7 What is the difference between <input type="text"> and <textarea>?

⇒

<input type="text">>	<textarea>
- Single line input	- multiline input
- self closing tag	- both opening, closing tag.
- value set by value attribute	- content is placed betwee opening and closing tags.

Q.8 What is the use of the <select> tag?

⇒ <select> tag is used for creating dropdown. It allows the user to choose one option from a list.

Q.9 What is basic form validation?

⇒ Form validation means to check whether the input details are correct or not before we submit it.

Its use to set the minimum number of characters required.

Q.10 Why are forms important in real website?

⇒ It allows client/user to input their data, registering login fields input, submit, reset, save.

To make it functional and responsive.

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• Assignment - 2 •

1) The tag used to create a form is <form> </form>.

2) The attribute the defines where form data is sent is action

3) The input text type used to hide text is password.

4) The tag used to create a dropdown list is <select>

5) The attribute used to make a field mandatory is required.

6) The button that sends form data is called a submit button.

• Assignment - 3 •

Element / Attribute	Purpose
<form>	- defines an area for user input.
<input>	- gather input from user
<label>	- provide caption / text for an input.
<textarea>	- creates a multi-line text input field.
<select>	- create dropdown list
required	- to make field mandatory.

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• Assignment - 4 •

Q. Write a correct input ~~text~~ type for following fields

1) Username. -
<input ~~type~~ type="text" name="username" >

2) password -
<input type="password" id="password" >

3) Email address -
<input type="text" name="Email Address" >

4) Mobile no. -
<input type="tel" name="mobile no" >

5) Date of birth -
<input type="Date" name="dob" >

• Assignment - 8 •

1) What is the GET method ?
⇒ GET is used to request data from a specified resource.
Sends data via URL

2) What is the POST method ?
⇒ POST is used to send data to a server to create and update a resource.

3) Which method is more secure and why ?
⇒ POST method is more secure because it does not displayed the data in URL / browser directly

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4) Which method is suitable for login forms ?

⇒ POST method is suitable for login forms because it sends sensitive data like passwords in the request body, hidden from the URL, like GET.

5) Write one real life use case for GET & POST each.

⇒ GET :-

Search any product on e-commerce site. It displays directly.

POST :-

Same in e-commerce site, when user place a order and submit it by filling all data (address, name, mobile no, pincode), it will keep safe in POST method.

• Assignment - 9 •

Corrected Code ⇒

```
<form>
    <label for="username">Name : </label>
    <input type="text" id="username" name="username"
                                    required >
    <input type="submit" value="Submit">
</form>
```

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• Assignment - 10 •

Real-Life Scenario Questions :-

Q.1 Where are HTML forms used on a college website

⇒ In college Weboite -
Registeration form, feedback form, Login form
Admission form

Q.2 Where are forms used on an e-commerce website?

⇒ Sign Up, Login, Payment, Logout, Signout, Sign In.

Q.3 Why is form validation important?

⇒ Form validation is important because it ensures that data collected is correct/accurate and complete. Another reason is for security and it improves user/clients experience.

Q.4 What problems can occurs if validation is not used?

⇒ If validation is not used then following problems we have to face -

1) Security will not handled like anyone/hackers can easily access data or easily input wrong data that may cause create errors or issues.

2) Can change or steal your database and use it in wrong way.

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