

Lab Exercise 05 – Design and Validate HTML forms

Objectives

By the end of this lab session, you will familiar with form design and form validations.

Introduction

- <form> :This element defines a form that is used to collect user input:

Ex - **<form>**

//All form data/elements should include here.
</form>

- <input> : element uses to get user inputs. There are different types of inputs based on their type.

Ex – text (text field), radio (radio buttons), submit (submit button)

- Text

<input type = “text”> Displays one-line text field.

- Radio Buttons

<input type = “radio”> Defines a radio button.

To group the radio buttons, it should use **same name attribute value** for all the radio buttons.

- Check Boxes

<input type = “checkbox”> Defines a check box.

The checkbox is shown as a square box that is ticked (checked) when activated.

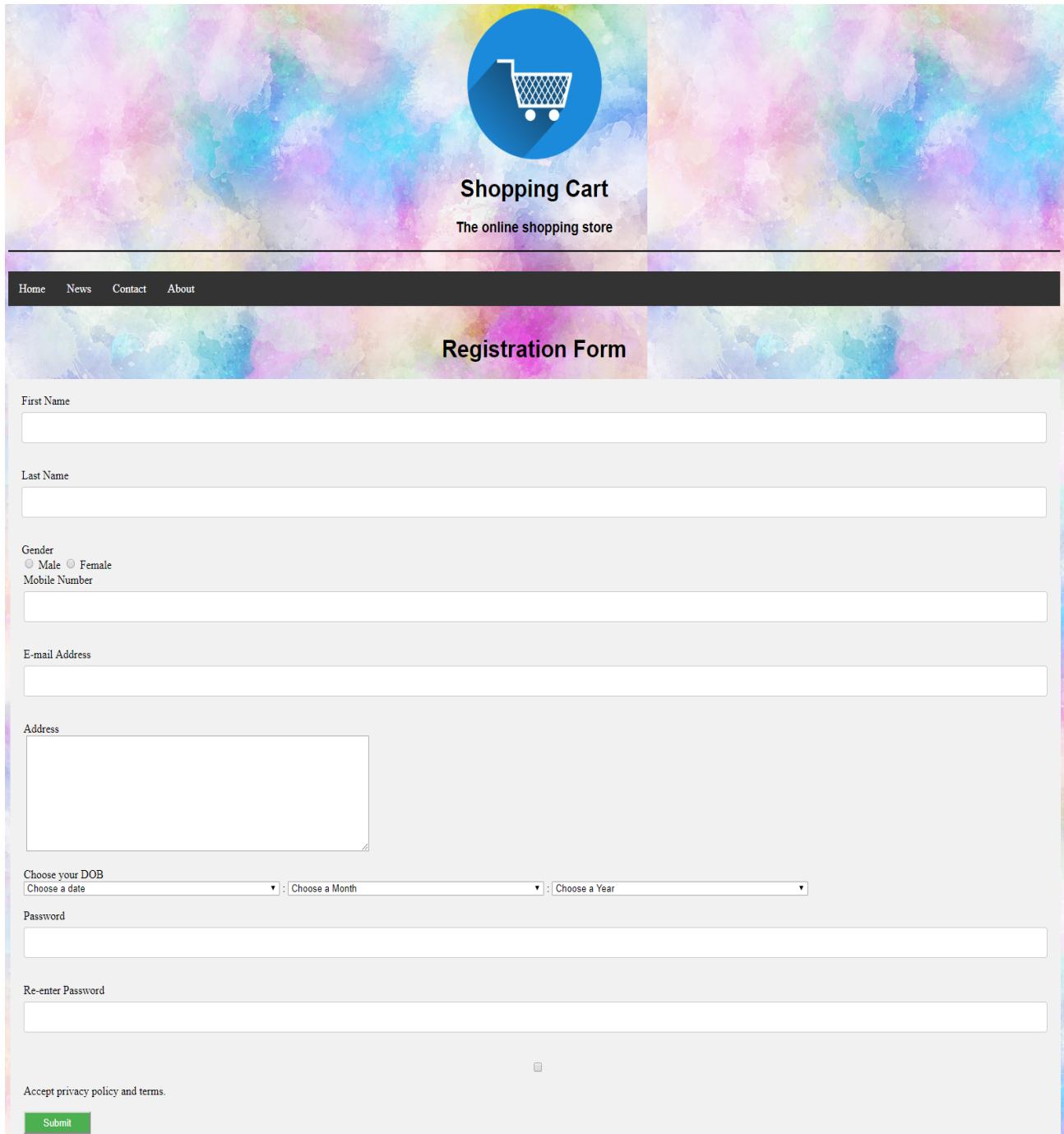
- Dropdown List

<select> tag defines a drop-down list.

<option> tag defines the items which are in the dropdown list.

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Exercise 1: Following is the outcome of today's lab session.



The screenshot shows a web page for "The online shopping store". At the top center is a blue circle containing a white shopping cart icon. Below it, the text "Shopping Cart" is displayed. A horizontal navigation bar at the top includes links for Home, News, Contact, and About. The main content area features a title "Registration Form" centered above several input fields. The fields include "First Name" (text input), "Last Name" (text input), "Gender" (radio buttons for Male and Female), "Mobile Number" (text input), "E-mail Address" (text input), "Address" (text area), "Choose your DOB" (three dropdown menus for Date, Month, and Year), "Password" (text input), "Re-enter Password" (text input), and a checkbox labeled "Accept privacy policy and terms." A green "Submit" button is located at the bottom left of the form area.

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- Go to the IWT folder structure which you created on the first lab session.
- Create a file named “**register.html**” and save it inside “**IWT/src**” folder.
- Open the “**index.html**” file.
- Link “**register.html**” file to the **Contact** button in the “**index.html**”.
- Copy the entire code of “**index.html**” and paste it in the **register.html**.
- Delete the content between navigation bar and the footer.
- Fill the following boxes with the relevant style codes for the given activities and edit the “**register.html**” file.
- Add a header named “**Registration Form**”.

- Create a form and add following fields inside that form. (All Fields are mandatory).

Use following link in order to create the fields.

https://www.w3schools.com/html/html_form_input_types.asp

- First Name Field

- Last Name Field

- Gender

Should add two radio buttons named “Male” and “Female”. Only one button should be able to select.

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- Mobile Number

Length of the field should be 10. A warning should display, when submitting the wrong input values into the field.

- E-mail

A warning should display, when submitting the form without a proper email format in the email input field.

https://www.w3schools.com/jsref/prop_email_pattern.asp

- Address

It should be a text area which have multiple rows.

https://www.w3schools.com/tags/tag_textarea.asp

- DOB

- The date dropdown should contain numbers till 1 – 31.
- The month should contain numbers 1 – 12.
- The years should contain 1995 – 2005.

https://www.w3schools.com/tags/tag_select.asp

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- Password

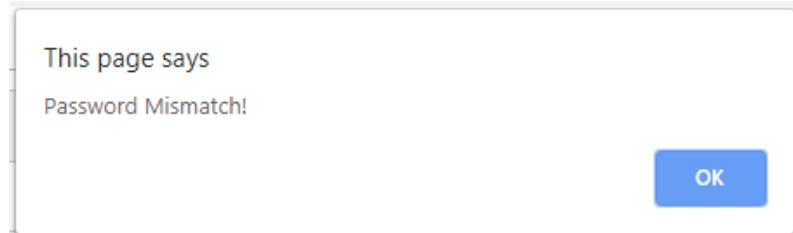
Password should contain

Uppercase letters, lowercase letters, numbers, minimum 5 and maximum 10 characters

https://www.w3schools.com/howto/howto_js_password_validation.asp

- Re-enter Password

- Create a function named ‘**checkPassword()**’ in myScript.js inside the “**IWT/js**” folder
- There it should check whether two passwords are matched or not.
- Then display the given message according to the result.
- In order to call the javascript function, add following attribute in the form
onsubmit="return checkPassword ()".
- Password should be similar to the previous password.
 - If passwords don’t match it should display an alert showing “**Password Mismatch!**”
 - If both passwords are similar it should display an alert saying “**Success!**”



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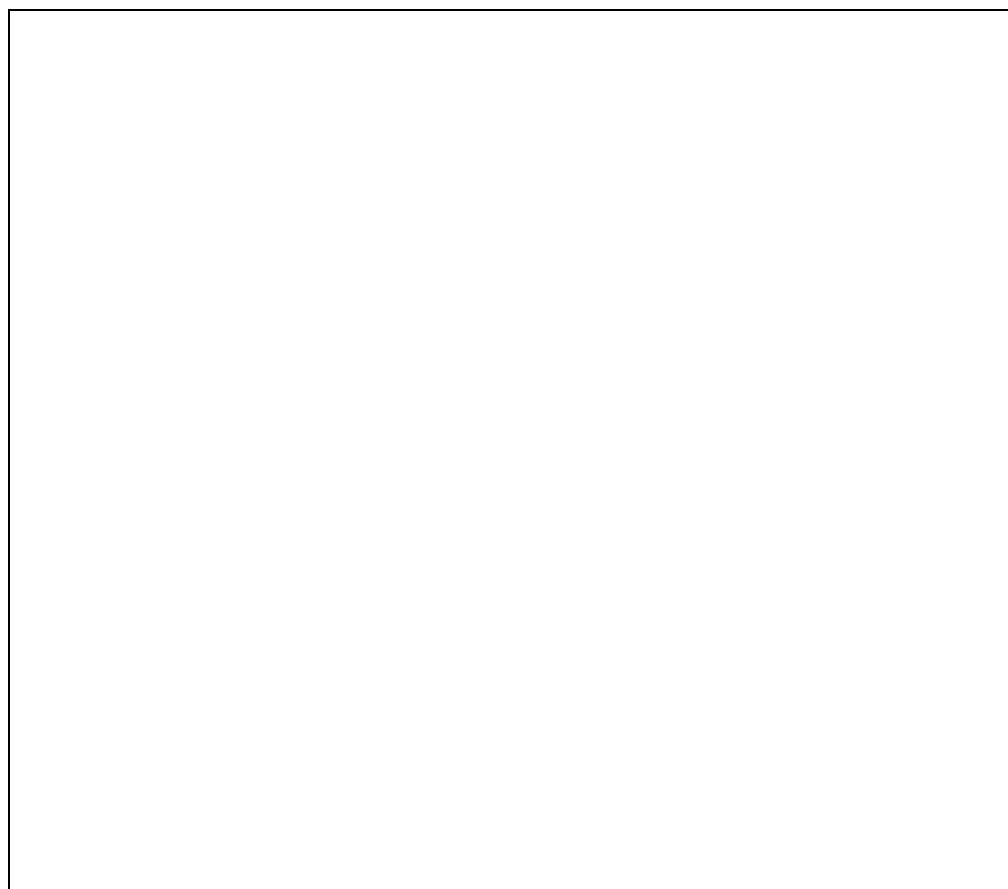
o Checkbox

- Add a checkbox for “**accept privacy policy and terms**”.
- In the html file disable the submit button in the beginning.
- Create a function called enableButton() to enable Submit button.
- Call that method when it clicks the checkbox.

Note: Button should be enable only when the checkbox is checked.

https://www.w3schools.com/jsref/prop_pushbutton_disabled.asp

https://www.w3schools.com/howto/howto_js_display_checkbox_text.asp

o Create **formStyles .css** file to add proper styles for the form and link it in order to add styles for the form.