

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.

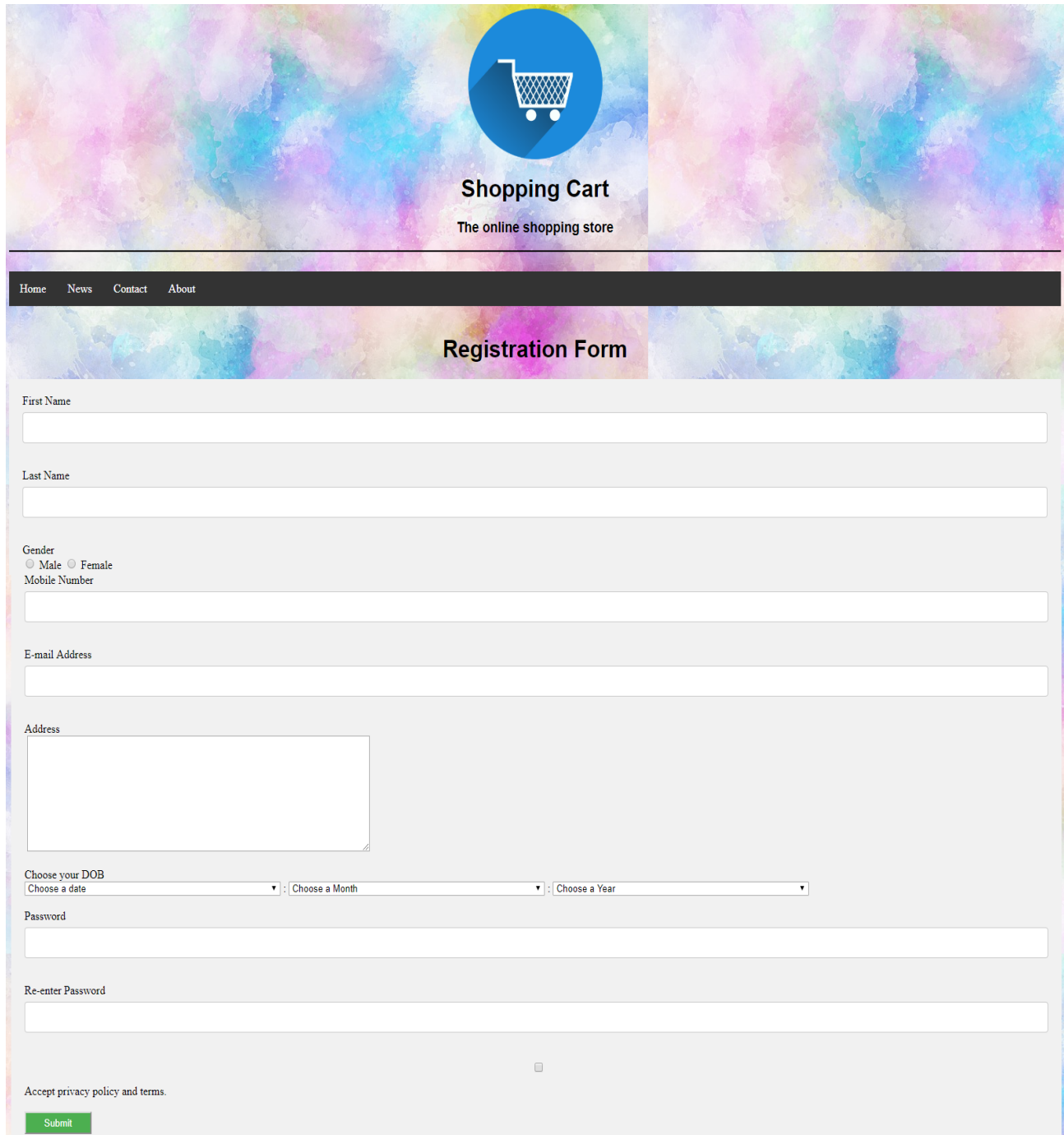
- Dropdown List

`<select>` tag defines a drop-down list.

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

Lab Exercise 05 – Design and Validate HTML forms

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



The screenshot shows a web page with a colorful, abstract background. At the top, there is a blue circular icon with a white shopping cart. Below it, the text "Shopping Cart" and "The online shopping store" is displayed. A navigation bar contains links: Home, News, Contact, and About. The main section is titled "Registration Form" and contains several input fields: First Name, Last Name, Gender (with radio buttons for Male and Female), Mobile Number, E-mail Address, and Address (a larger text area). Below these is a "Choose your DOB" section with three dropdown menus for "Choose a date", "Choose a Month", and "Choose a Year". There are also fields for "Password" and "Re-enter Password". At the bottom, there is a checkbox for "Accept privacy policy and terms." and a green "Submit" button.

Shopping Cart
The online shopping store

Home News Contact About

Registration Form

First Name

Last Name

Gender
☐ Male ☐ Female

Mobile Number

E-mail Address

Address

Choose your DOB
Choose a date : Choose a Month : Choose a Year

Password

Re-enter Password

☐ Accept privacy policy and terms.

Submit

Lab Exercise 05 – Design and Validate HTML forms

- 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.

Lab Exercise 05 – Design and Validate HTML forms

- 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

Lab Exercise 05 – Design and Validate HTML forms

- Password

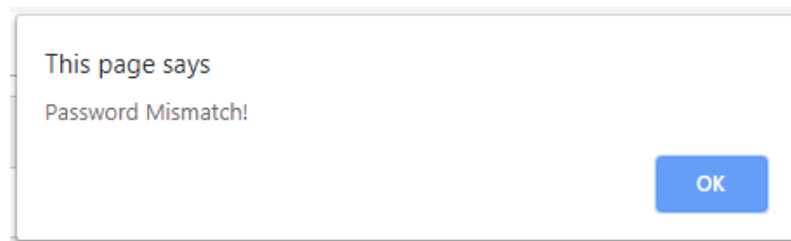
Password should contain

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!**"



Lab Exercise 05 – Design and Validate HTML forms


- 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



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