Web Programming

Form and Frame

What is a form?

Form is a media to accept user inputs and send the process to server to be processed.

HTML fo	rm	
First name:		
Last name:		
E-mail:		
MaleFemale		
Submit Reset		

Form

```
<form></form>
```

- Is used as the base to contain the user inputs.
- Every form will have variety of inputs, boxes, buttons, etc.

Input

- Tag: <input />
- Types of input: text, number, date, checkbox, etc
- To give value, use attribute "value"

Note: It is a good practice to add id and name in out input tag like

Label

First name:

- Label is a description of an input.
- Using label will help user in identifying which input is currently in process.
- Use "for" attribute containing the "id" of the input.

Example: the "label" is for input with id "fname"

```
<label for="fname">First name:</label><br/><input type="text" id="fname" name="fname"/>
```

Button

A button is something that is clickable for our user. It is usually used as confirmation about an action, or when we want to trigger something in our form. To create a button we have two ways

- 1. Using <input type="button" value="Click Me"/>
- 2. Using <button>Click Me</button>

Click Me

Button Types

We have two different main button types

- 1. **button**: the usual button
- 2. **submit**: same with input type submit and will call the form*

Let's Try input types and add some values ;)

```
Date: <input type="date" name="myDate" id="myDate" /> <br/>
Email: <input type="email" name="myEmail" id="myEmail" /> <br/>
Tel: <input type="tel" name="myTel" id="myTel" /> <br/>
File: <input type="file" name="myFile" id="myFile" /> <br/>
Password: <input type="password" name="myPass" id="myPass" /> <br/>
Number: <input type="number" name="myNumber" id="myNumber" /> <br/>
Range: <input type="range" name="myRange" id="myRange" /> <br/>
Hidden <input type="hidden" name="myHidden" id="myHidden" /> <br/>

**Shr/>
**
```

With values

```
Date: <input type="date" name="myDate" id="myDate" value="2023-02-14"/>
<br/><br/>
Email: <input type="email" name="myEmail" id="myEmail"
value="john@test.com"/>
<br/><br/>
Tel: <input type="tel" name="myTel" id="myTel" value="+62 85484447" />
<br/><br/>
File: <input type="file" name="myFile" id="myFile" />
<br/><br/>
Password: <input type="password" name="myPass" id="myPass" value="secret" />
<br/><br/>
Number: <input type="number" name="myNumber" id="myNumber" value="13" />
<br/><br/>
Range: <input type="range" name="myRange" id="myRange" value="10" />
<br/><br/>
Hidden <input type="hidden" name="myHidden" id="myHidden" value="secret" />
```

Date: mm/dd/yyyy 🗂	Date: 02 / 14 / 2023 🗖
Email:	Email: john@test.com
Tel:	Tel: +62 85484447
File: Browse No file selected.	File: Browse No file selected.
Password:	Password:
Number:	Number: 13
Range:	Range:
Hidden	Hidden

Input Attributes

```
<form>
   Username: <input type="text" id="username" name="username" value="John" size="20"/>
   <br/><br/>
   Nickname: <input type="text" id="nickname" name="nickname" autofocus/>
   <br/><br/>
   StudentID: <input type="text" id="studentId" name="studentId" value="001" readonly/>
   <br/><br/>
   Major: <input type="text" id="major" name="major" value="IT" disabled/>
   \langle br/\rangle \langle br/\rangle
   Hobby: <input type="text" id="hobby" name="hobby" placeholder="Sing"
                  maxlength="20" required/>
   <<u>br/><br/></u>>
   Rate: <input type="number" id="rate" name="rate" min="1" max="5"/>
   <br/><br/>
   <input type="submit" value="Submit Form"/>
</form>
```

Username: John	Username: John
Nickname:	Nickname:
	StudentID: 001
StudentID: 001	Major: IT
Major: IT	Hobby: Sing
Hobby: Sing	Rate: 5
Rate: 5	Submit Form
Submit Form	

Username: John
Nickname:
StudentID: 001
Major: IT
Hobby: Reading
Rate: 10
Please select a value that is no more than 5. Submit Form

Radio

Choose your favorite Web language:

- O HTML
- O CSS
- O JavaScript

CheckBox

Peanut [Cookies [Almond
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Different from radio, checkbox provides separate values that user could choose as she/he would like to,

Notes on radio and checkbox

To make sure that our radio buttons provide different choices, we **MUST give the** same name, and different id value. The same applies to checkboxes too

Try to change the name into different names for each and see what happens

Select

Choose a car: Volvo
Toyota
Fiat
Audi

Choose a car: Toyota

```
<label for="cars">Choose a car:</label>
<select id="cars" name="cars">
        <option value="volvo">Volvo</option>
        <option value="toyota" selected>Toyota</option>
        <option value="fiat">Fiat</option>
        <option value="audi">Audi</option>
        </select>
```

Multiple Select

```
<label for="cars">Choose cars:</label>
<select id="cars" name="cars" multiple>
 <option value="volvo">Volvo</option>
 <option value="toyota">Toyota
 <option value="fiat">Fiat
 <option value="audi">Audi</option>
</select>
```

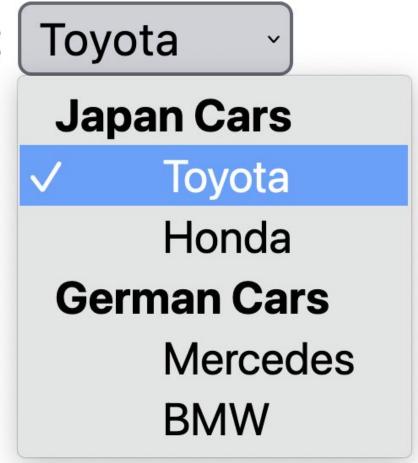


Choose cars:

Optgroup

```
<label for="cars">Choose a car:</label>
<select name="cars" id="cars">
   <optgroup label="Japan Cars">
      <option value="toyota">Toyota</option>
      <option value="honda">Honda</option>
   </optgroup>
   <optgroup label="German Cars">
      <option value="mercedes">Mercedes</option>
      <option value="bmw">BMW</option>
   </optgroup>
</select>
```

Choose a car: Toyota



Textarea

```
<label for="web_programming">How Web Programming is:</label>
<textarea id="web_programming" name="web_programming" rows="4" cols="50">
Learn web programming they say, it will be fun they say.
</textarea>
```

Learn web programming they say, it will be fun they say.

How Web Programming is:

Fieldset and Legend

```
<form>
  <fieldset>
    <legend>Personalia:</legend>
    <label for="fname">First name:</label><br>
    <input type="text" id="fname" name="fname" value="John"><br>
    <label for="lname">Last name:</label><br>
    <input type="text" id="lname" name="lname" value="Doe"><br><br>
    <input type="submit" value="Submit">
 </fieldset>
</form>
```

-Personalia:			
First name:			
John			
Last name:	-		
Doe			
Submit			

Datalist

```
<form>
 <input list="browsers" name="browser">
  <datalist id="browsers">
     <option value="Internet Explorer">
     <option value="Firefox">
     <option value="Chrome">
     <option value="Opera">
     <option value="Safari">
 </datalist>
  <input type="submit" value="Find Browser"/>
</form>
```

a

Find Browser

Opera

Safari

Frame and Frameset

- Deprecated in HTML5, but still fun to use
- Used to embed another html page inside a page
- Frame could be nested
- To add frame and frameset, need to remove some part of the html tags

Create these files in one folder:

- 1. Master page (with frame): index.html
- 2. Navigation: nav.html
- 3. Home page*: main.html
- 4. Form page*: form.html
- 5. About page*: about.html
- 6. Info page*: info.html

^{*}Just put anything inside, do not need to ask:)

index.html

Use cols to create set of frames 110 means use 110 pixels first * means use the rest

```
<frameset cols="110,*">
    <frame name="leftframe" src="nav.html"/>
    <frame name="main" src="main.html"/>
    <noframes>
         Not Supported
    </noframes>
                                           Add 2 frames with unique name,
</frameset>
                                           and add the source to load the
                                           HTML. Keep an eye on the name
                  If your browser does not support
                  frames, show noframes
```

nav.html

```
<a href="main.html" target="main">Main Page</a><br/><br/>
<a href="form.html" target="main">Form</a><br/><br/>
<a href="about.html" target="main">About</a><br/><br/>>
```

Create links, and fill the "target" attribute with the name of the frame to load, in this case the frame name is "main"

Open index.html

Main Page

Home Page

Form

About

Nested Frame

- Put another frameset inside
- Use rows attribute to split the frame by rows
- Use cols attribute to split the frame by columns

index.html (updated)

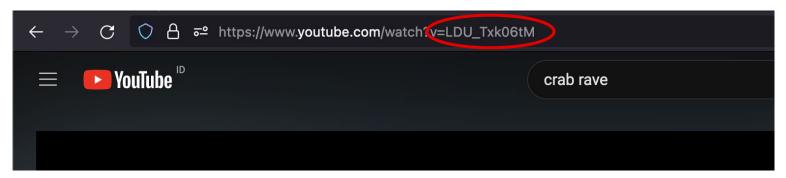
```
<frameset cols="110,*">
   <frame name="leftframe" src="nav.html"/>
   <frameset rows="100,*">
                                                  Add another frameset, split
                                                  by rows
       <frame name="info" src="info.html"/>
                                                  First row is 100 pixels
       <frame name="main" src="main.html"/>
   </frameset>
   <noframes>
       Not Supported
   </noframes>
</frameset>
```

Main Page	Web Programming Week 3
<u>Form</u>	
About	
	Home Page

Iframe

- Used in HTML5
- To embed external pages or video sources

Example: YouTube videos will have the unique identifier



Iframe

```
Here is a video:<br/>
<iframe width="420" height="315"
src="https://www.youtube.com/embed/LDU_Txk06tM">
</iframe>
```

Here is a video:

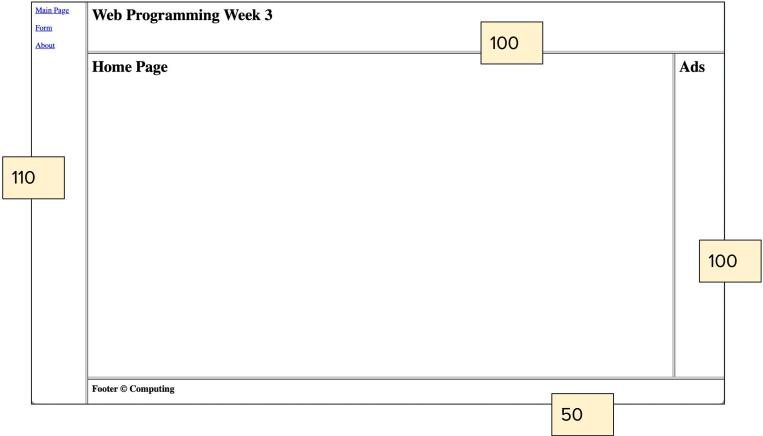


One more thing

Try this in the frame:

- 1. Change the content of about.html using the previous slide
- 2. Then open the link in the frame:)

Exercise to challenge yourself



References

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

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