Course: Web Application Development Lab Instructor: Assoc. Prof. Nguyen Van Sinh

MSc. Nguyen Trung Nghia

Email: nysinh@hcmiu.edu.vn

Lab 4: Advance HTML and CSS.

Contents:

- Objects
- o Form
- o Bootstrap
- o Exercises

Duration: 3 hours

Part 1: Objects

Textbox

```
<input type="text" name ="T1" size="33">
```

Check-box

```
<input type="checkbox" name="c1" value="ON">Computer Graphic <br><input type="checkbox" name="c2" value="ON">Computer Network <br><input type="checkbox" name="c3" value="ON">Introduction to Computer<br><input type="checkbox" name="c4" value="ON">Web Programming<br>
```

Radio

```
<input type="radio" value="r1" checked name="red">Red
<input type="radio" value="r2" checked name="blue">Blue
<input type="radio" value="r3" checked name="green">Green
```

Button

```
<input type="submit" value="Submit" name="s1">
<input type="reset" value="Reset" name="s2">
```

Combo-box

Text-area

<textarea rows="number of rows" name="tr1" cols="number of columns">
</textarea>

Part 2: Deploy your web page using GitHub

We can host a static HTML website for free on Github. You can only host static websites (HTML, CSS, JavaScript, including react, angular, bootstrap). You won't be able to upload a web application with a server (python flask/django, ruby on rails, node.js/express, etc). The steps are as followed:

- 1. Create a GitHub account and login
- 2. Create a repository and name it {username}.github.io if it's a personal website; else, name it whatever you like.
- 3. Upload your web page files to the new repository
- 4. Go to settings, pages, and click on source. Change 'none' to 'master' or 'main' (or whichever branch you'd like)
- 5. Your website will have this structure: {username}.github.io/{repository-name}

Exercise 1: Deploy the personal web pages you which do on previous lab to the github.io and submit the link via your report.

Tutorial: How to Host a Website On Github Pages (youtube.com)

Part 3: Bootstrap: Introduction · Bootstrap v4.6 (getbootstrap.com)



Build fast, responsive sites with Bootstrap

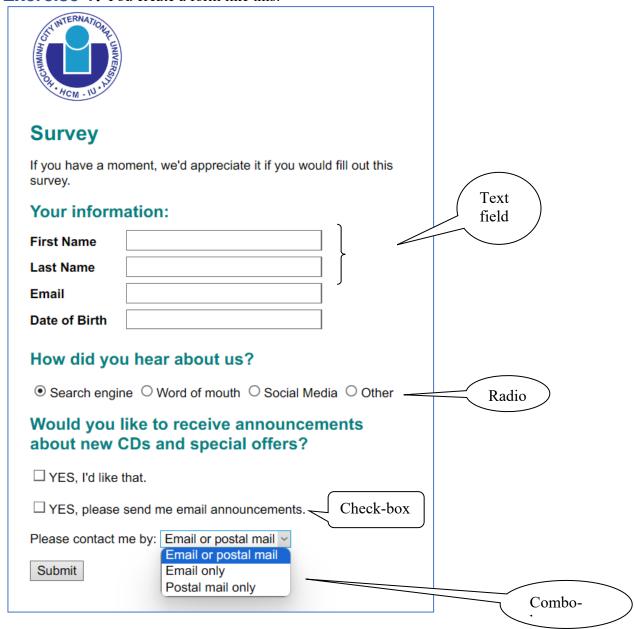
Powerful, extensible, and feature-packed frontend toolkit. Build and customize with Sass, utilize prebuilt grid system and components, and bring projects to life with powerful JavaScript plugins.

start bootstrap.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"</pre>
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
  <script
src="https://cdn.jsdelivr.net/npm/jquery@3.7.1/dist/jquery.slim.min.js"></script>
  <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></scrip</pre>
  <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"
></script>
</head>
<body>
<div class="jumbotron text-center">
  <h1>My First Bootstrap Page</h1>
  Resize this responsive page to see the effect!
</div>
<div class="container">
  <div class="row">
    <div class="col-sm-4">
      <h3>Column 1</h3>
      Lorem ipsum dolor sit amet, consectetur adipisicing elit...
      Vt enim ad minim veniam, quis nostrud exercitation ullamco laboris...
    </div>
    <div class="col-sm-4">
      <h3>Column 2</h3>
      Lorem ipsum dolor sit amet, consectetur adipisicing elit...
      Vt enim ad minim veniam, quis nostrud exercitation ullamco laboris...
    </div>
    <div class="col-sm-4">
      <h3>Column 3</h3>
      Lorem ipsum dolor sit amet, consectetur adipisicing elit...
      Vt enim ad minim veniam, quis nostrud exercitation ullamco laboris...
    </div>
  </div>
</div>
</body>
</html>
```

Now check out by yourself the Bootstrap compone and try to apply it <u>Bootstrap 4 Tutorial</u> (w3schools.com) or <u>Examples · Bootst+rap v4.6 (getbootstrap.com)</u>

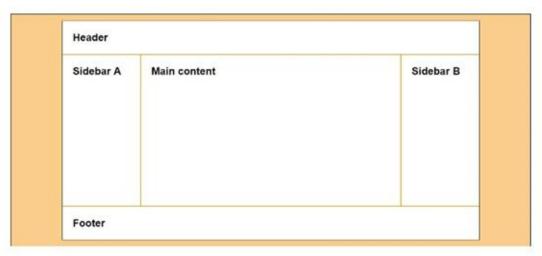
Exercise 1: You create a form like this:



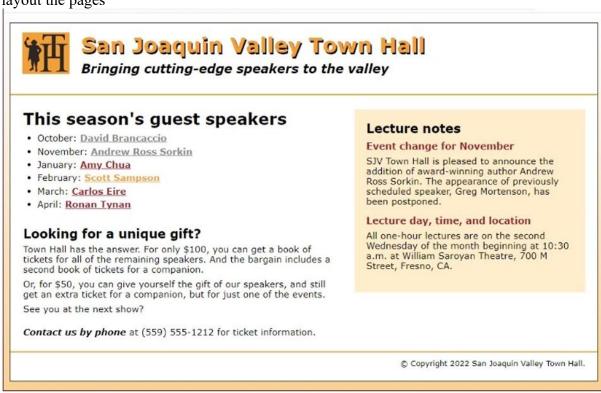
Bonus: Applying Bootstrap to your form.

Check BB to get source HTML code

Exercise 2: Implement the page here using Flexbox in a 3-column, fixed-width layout



Exercise 3: Implement following pages using CSS, HTLM and applying Flexbox to layout the pages



Part 4: Homework Implement following pages using HTML, CSS, and flexbox How to submit your work to BB



For each exercise, hold your source code in separate folder. Capture your page, your code in the pdf report.

--- The end **---**