

**Course: Web Application Development**  
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## **Lab 4: Advance HTML and CSS.**

### **Contents:**

- **Objects**
- **Form**
- **Bootstrap**
- **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**

```
<select name="Type">  
  <option value="Reading">Reading</option>  
  <option value="Reading">Whatching TV</option>  
  <option value="Reading">Studying</option>  
  <option value="Reading">Shoping</option>  
  <option value="Reading">Internet</option>  
</select>
```

## 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"
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
t>
  <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>
  <p>Resize this responsive page to see the effect!</p>
</div>

<div class="container">
  <div class="row">
    <div class="col-sm-4">
      <h3>Column 1</h3>
      <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit...</p>
      <p>Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris...</p>
    </div>
    <div class="col-sm-4">
      <h3>Column 2</h3>
      <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit...</p>
      <p>Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris...</p>
    </div>
    <div class="col-sm-4">
      <h3>Column 3</h3>
      <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit...</p>
      <p>Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris...</p>
    </div>
  </div>
</div>

</body>
</html>
```

*Now check out by yourself the Bootstrap compone and try to apply it [Bootstrap 4 Tutorial \(w3schools.com\)](#) or [Examples · Bootstrap v4.6 \(getbootstrap.com\)](#)*

**Exercise 1:** You create a form like this:

The form is titled "Survey" and includes a logo for Ho Chi Minh City International University (HCM-IU). The text reads: "If you have a moment, we'd appreciate it if you would fill out this survey."

**Your information:**

First Name

Last Name

Email

Date of Birth

How did you hear about us?

☒ Search engine ☐ Word of mouth ☐ Social Media ☐ Other

**Would you like to receive announcements about new CDs and special offers?**

☐ YES, I'd like that.

☐ YES, please send me email announcements.

Please contact me by:

Annotations:

- Text field (points to the First Name, Last Name, Email, and Date of Birth input fields)
- Radio (points to the radio buttons for "How did you hear about us?")
- Check-box (points to the "YES, please send me email announcements." checkbox)
- Combo- (points to the "Please contact me by:" dropdown menu)


**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, HTML and applying Flexbox to layout the pages



## San Joaquin Valley Town Hall

*Bringing cutting-edge speakers to the valley*

### This season's guest speakers

- October: [David Brancaccio](#)
- November: [Andrew Ross Sorkin](#)
- January: [Amy Chua](#)
- February: [Scott Sampson](#)
- March: [Carlos Eire](#)
- April: [Ronan Tynan](#)

### Lecture notes

**Event change for November**

SJV Town Hall is pleased to announce the addition of award-winning author Andrew Ross Sorkin. The appearance of previously scheduled speaker, Greg Mortenson, has been postponed.

**Lecture day, time, and location**

All one-hour lectures are on the second Wednesday of the month beginning at 10:30 a.m. at William Saroyan Theatre, 700 M Street, Fresno, CA.

### Looking for a unique gift?

Town Hall has the answer. For only \$100, you can get a book of tickets for all of the remaining speakers. And the bargain includes a second book of tickets for a companion.

Or, for \$50, you can give yourself the gift of our speakers, and still get an extra ticket for a companion, but for just one of the events.

See you at the next show?

**Contact us by phone** at (559) 555-1212 for ticket information.

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## Part 4: Homework

Implement following pages using HTML, CSS, and flexbox How to submit your work to BB



# San Joaquin Valley Town Hall

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## Guest speakers

October  
[David Brancaccio](#)



November  
[Andrew Ross Sorkin](#)



January  
[Amy Chua](#)



February  
[Scott Sampson](#)



## Our Mission

San Joaquin Valley Town Hall is a non-profit organization with a all-volunteer board of directors. Our mission is to bring internationally renowned, thought-provoking speakers to educate, and entertain our audience! As one of our members, I think of it as the gift of knowledge...and it's priceless."

*"Each year I give a ticket package to each of our members. I think of it as the gift of knowledge...and it's priceless."*

## Speaker of the Month

### Fossil Threads in the Web of Life

February  
**Scott Sampson**

What's 75 million years old and brand spanking new? A teenage Utahceratops! Come to the Saroyan, armed with your best dinosaur roar, when Scott Sampson, Research Curator at the Utah Museum of Natural History, steps to the podium. Sampson's research has focused on the ecology and evolution of late Cretaceous dinosaurs and he has conducted fieldwork in a number of countries in Africa.

[Read more.](#) [Or play video.](#)



## Our Ticket Packages

- Season Package: \$95
- Patron Package: \$200
- Single Speaker: \$25

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

--- The end ---