Class: BCS V A/B   **Date: 18-11-20**
Subject: Web Technologies
Instructor: Dr. Muhammad Imran

Bootstrap Framework

 (Task: 1) - In this lab, you are supposed to create a responsive web site for a *restaurant* using the Bootstrap framework. It includes three web pages; ***Home.html***, ***About.html*** and ***Contact.html***. Details about the layout of the ***Home.html*** are given below:

1. For the extra-small screen, the layout should look like:

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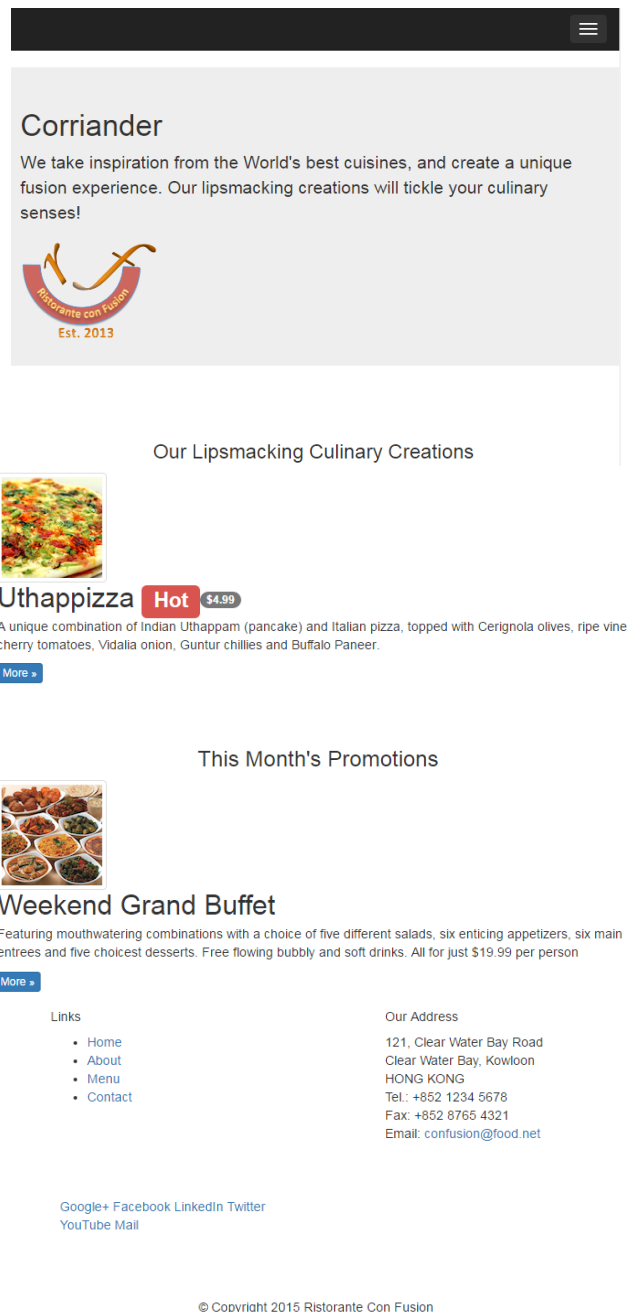
Bootstrap Framework

Figure 1

2. From small to extra-large screen, the layout should look like as below:
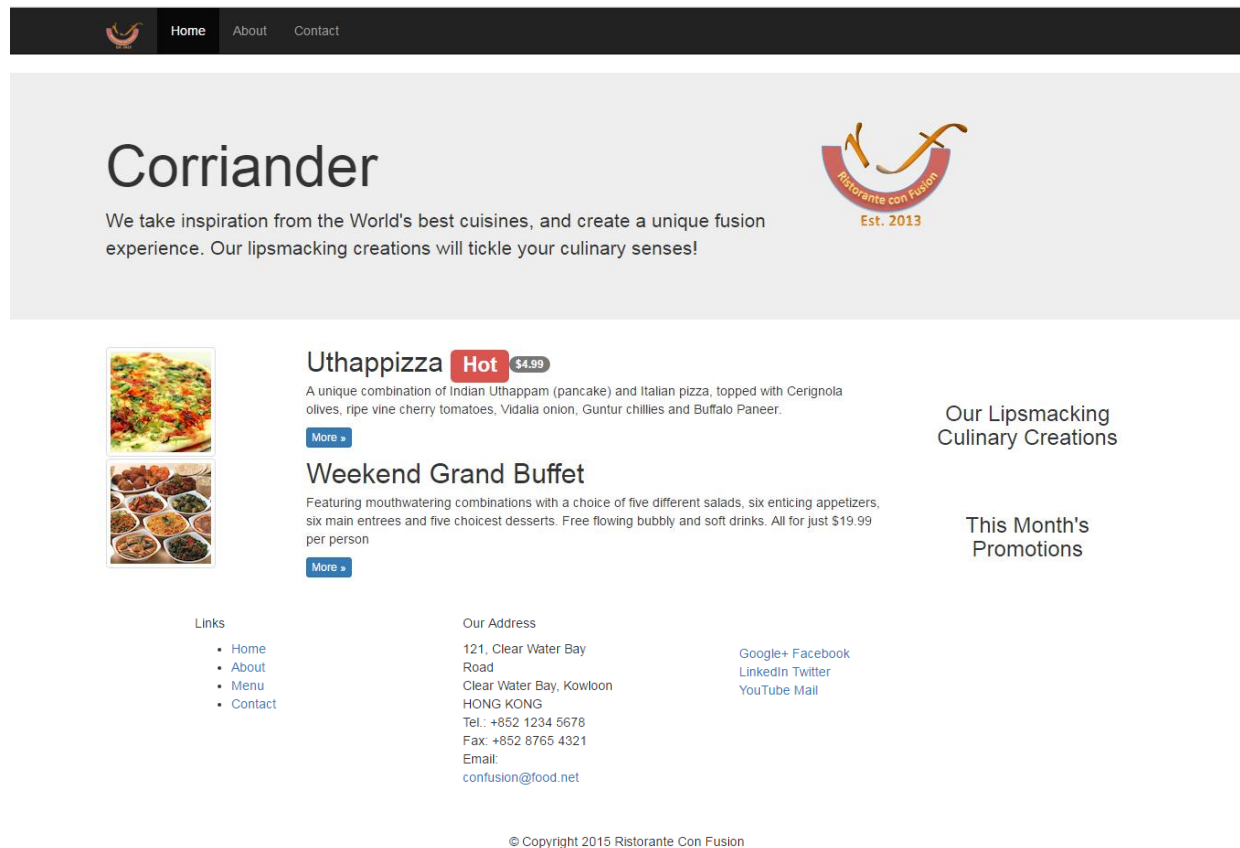
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Figure 2

Following are supplementary details about the design:

1. First, you have to link bootstrap framework with the HTML file. We discussed two ways in the **Lecture 9**. Open that lecture to understand the process or open the following URL and reuse `<head>` tag for that purpose.
   a. https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_default&stacked=h
2. The navigation bar contains links to three different pages other than the restaurant logo. You can create such a bar using the following HTML code:

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```
nav class="navbar navbar-expand-md bg-dark navbar-dark">
    <a class="navbar-brand" href="#"><img src="img/logo.png" style="height:30px; width:41px"></a>
    <button class="navbar-toggler" data-toggle="collapse" data-target="#navbar">
        <span class="navbar-toggler-icon"></span>
    </button>
    <div id="navbar" class="navbar-collapse collapse">
        <ul class="navbar-nav">
            <li class="nav-item"><a class="nav-link" href="#">Home</a></li>
            <li class="nav-item"><a class="nav-link" href="aboutus.html">About</a></li>
            <li class="nav-item"><a class="nav-link" href="contactus.html">Contact</a></li>
        </ul>
    </div>
/nav>
```
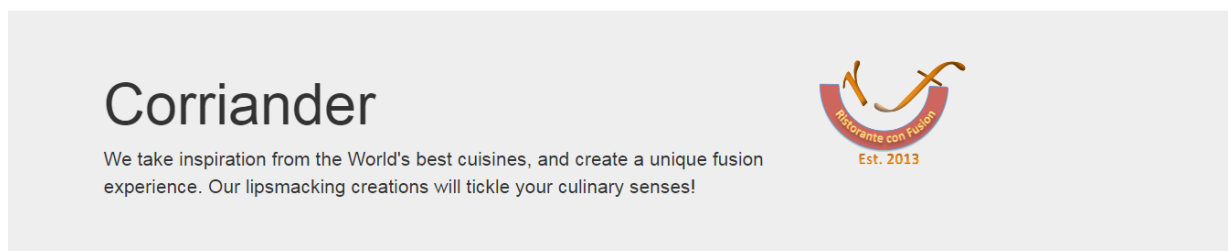
3. The classes specified inside the HTML tags `<nav>`, `<a>` and `<div>` tags help you to create a navbar for the small to extra-large screen and one such sample is provided below.

4. The classes specified inside the `<button>` tag help in creating navigation bar layout for the extra-small screen as shown below:

5. The details about how Bootstrap helps in creating navigation bar are in the following URLs,
   a. https://www.w3schools.com/bootstrap4/bootstrap_navs.asp
   b. https://www.w3schools.com/bootstrap4/bootstrap_navbar.asp

6. The header of the page with the name of the restaurant (*Corriander)* and the logo lies in the *Jumbotron* class of the Bootstrap framework. Details about the of this class is given in the following URL,
   a. https://www.w3schools.com/bootstrap4/bootstrap_jumbotron.asp

7. Here, you have to use Bootstrap 4 grid to create a horizontal layout to display information related to the restaurant (Corriander) [*i.e. We take inspiration from the World's best cuisines ……………….*] and logo image placed beside this information.

8. The sample HTML code for creating the above-mentioned layout is provided below:

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```
<header class="jumbotron">
    <div class="container">
        <div class="row">
            <div class="col-12 col-sm-10">
                <h1>Corriander</h1>
                <p>We take inspiration from the World's best cuisines, and create a unique fusion ex
            </div>
            <div class="col-12 col-sm-2">
                <img src="img/logo.png" class="img-responsive">
            </div>
            <div>
            </div>
        </div>
    </div>
</header>
```

9. Reuse this code to create basic structure of the web page header. Place the `<div class="jumbotron">` inside the `<div class="container">` and see the impact on the layout. Further details about the Grid structure can be found at the following link,
    a. https://www.w3schools.com/bootstrap4/bootstrap_grid_system.asp .
    b. We have also a detailed discussion in the class about the bootstrap grid structure and **Lecture 9** can be used for reference.
10. Next, there lies the section having information about two different items *Uthappizza* and *Weekend Buffet*, along with the relevant image placed on the left of the information and supplement description on the right. Again, you have to use Grid structure to create such a layout. For example, `<img>` may have 2 columns, Main information placed inside `<article>` may have 9 columns and supplementary information place inside `<aside>` may have 3 columns.
11. Also, there is an additional information about spiciness of the pizza (i.e; it can be *Hot*, *Mild* etc) and its price (i.e; it can be *$4.99* etc). It can be achieved using the *Badges* class. Details about how to use these classes is in the following URL,
    a. https://www.w3schools.com/bootstrap4/bootstrap_badges.asp
12. There is also a button *More* for adding additional information about the item*.* There are built-in classes in bootstrap for creating buttons and help about using such classes is given in the following link,
    a. https://www.w3schools.com/bootstrap4/bootstrap_buttons.asp

Uthappizza   **Hot** **$4.99**
A unique combination of Indian Uthappam (pancake) and Italian pizza, topped with Cerignola olives, ripe vine cherry tomatoes, Vidalia onion, Guntur chillies and Buffalo Paneer.
More »

Weekend Grand Buffet
Featuring mouthwatering combinations with a choice of five different salads, six enticing appetizers, six main entrees and five choicest desserts. Free flowing bubbly and soft drinks. All for just $19.99 per person
More »

Our Lipsmacking
Culinary Creations

This Month's
Promotions

Bootstrap Framework

13. At the end, there is footer of the web page, which contains responsive components. Again, make it responsive and use Grid structure to generate this layout.

Links	Our Address	
• Home	121, Clear Water Bay Road	Google+ Facebook
• About	Clear Water Bay, Kowloon	LinkedIn Twitter
• Menu	HONG KONG	YouTube Mail
• Contact	Tel.: +852 1234 5678	
	Fax: +852 8765 4321	
	Email:	
	confusion@food.net	

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14. After adding all the details mentioned between bullet points 1-15, the overall layout for the small to extra-large screen look like as given in **Figure 2**:

15. For extra-small screen, it should be like as provided in **Figure 1**:

(Task: 2) - Once you finish the **Task 1**, start working on ***About.html*** and ***Contact.html*** pages. Screenshots of these pages are given below:

Details about ***About.html*** are provided below:

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1. Navigation bar, Header and Footer are same as they were in the `Home.html`. Here there are two additional web components.

2. First is the Bootstrap `breadcrumb` which indicates the current page's location within a navigational hierarchy. In class, we have discussed its working in **Lecture 9**. The sample HTML code is provided below:

```html
<div class="col-12">
    <ul class="breadcrumb">
        <li  class="breadcrumb-item"><a href="index.html">Home</a></li>
        <li  class="breadcrumb-item active">About Us</li>
    </ul>
</div>
```

3. It will create following view. Students can further explore functionalities of the `breadcrumb` class using the following URL:

    a. https://getbootstrap.com/docs/4.0/components/breadcrumb/

Home / About Us

4. Second, this page contains table which has facts and figures about the employees and other stuff related to *Corriander* restaurant. We have discussed in class about creating tables using bootstrap and **Lecture 9** contains detail about it. Further information about creating tables in Booststrap is in the following URL,

    a. https://www.w3schools.com/bootstrap4/bootstrap_tables.asp

Facts & Figures

	2013	2014	2015
Employees	15	30	40
Guests Served	15000	45000	100,000
Special Events	3	20	45
Annual Turnover	$251,325	$1,250,375	~$3,000,000

5. Next is the **Contacts.html** web page

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Supplementary details about ***Contact.html*** are given below:

1. This page has `buttons` and `HTML forms` in addition to the web components discussed in the earlier web pages. A sample `Html code` for creating buttons in bootstrap is provided below:

```
<div class="btn-group">
    <a type="button" class="btn btn-primary" href="tel:+85212345678"><i class="fa fa-phone"></i> Call</a>
    <a type="button" class="btn btn-info"><i class="fa fa-skype"></i> Skype</a>
    <a type="button" class="btn btn-success" href="mailto:confusion@food.net"><i class="fa fa-envelope-o"></i> Email</a>
</div>
```

2. Don't' forget to add **font-awesome.min.css** if you want to use `fa, fa-phone` and other classes for adding icons into the buttons.

3. Further description about creating ***Button groups*** in Bootstrap can be found in the following URL:

    a. https://www.w3schools.com/bootstrap4/bootstrap_buttons.asp

4. The second component in this web page is the `HTML forms` using bootstrap. Learn about adding `forms` in Bootstrap using the link given below:

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a.   https://www.w3schools.com/bootstrap4/bootstrap_forms.asp

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Last Name	Enter Last Name
Contact Tel.	(Area code) Tel. number
Email	Email
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