BCIT

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY
School of Computing and Academic Studies

Bootstrap Lab Exercise

COMP1536 & ACIT1620
Due: At the end of the lab period

You are expected to complete the exercise during your lab session, show your instructor your work, and submit it. If you do not finish, then submit whatever you have by 6:30 PM on the day of your lab for late marking. This will, however, cost you a deduction of 10% of the maximum mark.

The objective of this lab is to familiarize you with Bootstrap.

1. Create a folder on your computer and name it *LastName_Firstname_Bootstrap*.
1. You are allowed to use an IDE like WebMatrix-3 for this lab.
2. Create a text file named *index.html* inside the *LastName_Firstname_Bootstrap* folder and add to it the following HTML5 code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Your name and student id goes here</title>
</head>
<body>
</body>
</html>
```

3. Download the minified version of bootstrap from http://getbootstrap.com/.
4. Extract the file and place the *css*, *fonts*, and *js* folders inside your *LastName_Firstname_Bootstrap* folder.
5. Move the *fonts* folder into the *css* folder.
6. In order to download a bootstrap theme called *Flatly*, go to http://bootswatch.com.
7. Choose *Flatly* from the *Themes* drop-down-list.
8. On the *Flatly* page, click on the *Flatly* drop-down-list on the top right-side, then *right-click* on *bootstrap.min.css* and choose to "*Save link as…*". This downloads the file to your computer. Place this file inside the *css* folder of your website.
9. In order to download *jQuery*, go to http://jquery.com/download/.
10. Download a *compressed production* version of *jQuery*. This would download a minified JavaScript file. Place the file inside the *js* folder of your website.
11. Link to the *bootstrap.min.css*, *jquery-*.min.js* and *bootstrap.min.js* files by re-purposing the following code to suit the version of jQuery you downloaded:

```
<link href="css/bootstrap.min.css" rel="stylesheet" media="screen">
<script src="js/jquery-2.1.3.min.js" type="text/javascript"></script>
<script src="js/bootstrap.min.js" type="text/javascript"></script>
```

12. Using the *Bootstrap Grid System*, build a responsive web page visible on extra small (xs), small (sm), medium (md) and large (lg) devices as shown below.

LARGE & MEDIUM

DESKTOP MODE

Picture Carousel

Any image of your choice

| Favorite mobile applications | Favorite songs & singers in a bootstrap table | Favorite movies & actors in a bootstrap table | Favorite video games |

Your name   Your student number

NOTE

- The text on the top left-hand corner of the page displays DESKTOP MODE, TABLET MODE, PHABLET MODE, PHONE MODE for lg, md, sm, and ex sizes respectively. Refer to example *12-visible.html* from the Bootstrap lecture
- The top banner section has an image. You can choose any image you like provided it is decent.
- Use a **carousel** with any four pictures. Do not use indecent pictures. Refer to the last example (23-carousel.html) of the bootstrap demo samples shown to you in the bootstrap lecture.
- Provide information about your favorite video games, mobile apps, singers/songs, and actors/movies.
- Use the Bootstrap *bg-primary* background color for the mobile apps and video games blocks.
- Use a **bootstrap table with alternate row colors** for singers/songs and actors/movies
- Put **your name and student number** in the footer section of the page. Name should be on the left-side and student number on the right-side.

SMALL

When the width of the page is reduced to a size that represent a small device, the page should look like this.

PHABLET MODE	BCIT
Picture Carousel	
Best mobile application	
Favorite songs & singers in a bootstrap table	
Favorite movies & actors in a bootstrap table	
Best video games	
Your name	Your student number

EXTRA SMALL

When the width of the page is reduced to a size that represent an extra small device, the page should look like this.
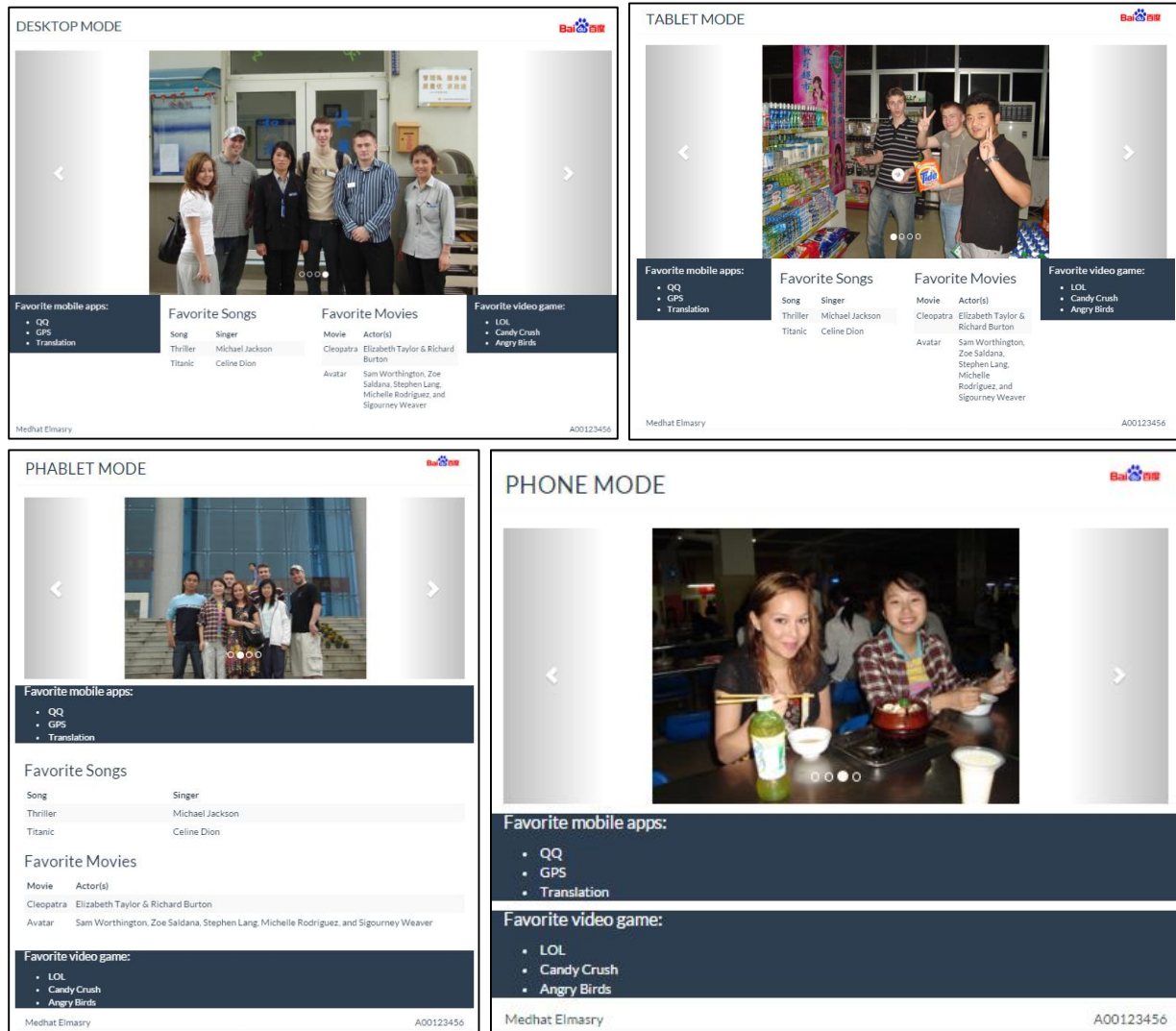
PHONE MODE	BCIT
Picture Carousel	
Favorite songs & singers in a bootstrap table	
Favorite movies & actors in a bootstrap table	
Your name and student number	

NOTE:

- For small devices, the two tables that hold information on songs and movies disappear. Refer to example *13-hidden.html* from the lecture examples.

SAMPLE SOLUTION

Below is a sample of what your solution may look like on the four types of devices.

SUBMISSION

- Show your work to the lab instructor who will give you a mark on the spot.
- Zip all the files comprising your web pages to filename *LastName_FirstName_set_week07.zip*. (example: *Doe_Jane_1B_week07.zip*) and copy the ZIP file to the Week 07 dropbox in D2L.

HINTS

- These are the standard bootstrap background colors that you can use:

  ```
  <p class="bg-primary">...</p>
  <p class="bg-success">...</p>
  <p class="bg-info">...</p>
  <p class="bg-warning">...</p>
  <p class="bg-danger">...</p>
  ```

- These are the standard bootstrap foreground text colors that you can use:

  ```
  <p class="text-muted">...</p>
  <p class="text-primary">...</p>
  <p class="text-success">...</p>
  <p class="text-info">...</p>
  <p class="text-warning">...</p>
  <p class="text-danger">...</p>
  ```

- You can right-align text to the right by setting the element class to *pull-right*

COMP1536 & ACIT1620 Bootstrap lab exercise marking guide:

Name _____   Set _____

Task	Max Mark	Actual Mark
Proper large & medium layout	3	
Proper small layout	3	
Proper extra small layout	3	
Quality of content (mobile app, songs, movies, games)	1	
TOTAL:	**10**	