INFO 2439: ASSIGNMENT 7
Mobile Application Development

Assignment 7 consists of more guided exercises using jQuery Mobile to lay the foundation for developing more robust mobile web applications using HTML5, CSS3, JavaScript and jQuery Mobile. This assignment consists of three tasks: downloading exercise files, completing exercises from the text, and then applying concepts from task two. Again, I do realize the sample files for the textbook contain completed solutions; however, if you decide 20-to-30 minutes is too much work for you, this will eventually backfire.

TASK 1

1. Navigate to the **jQuery Mobile Web Development Essentials - Second Edition** on the Packt Publishing website at https://www.packtpub.com/books/content/support/13781
2. Download the code files for each required reading chapter.
3. Extract the ZIP files to a good, safe location for reference and error checking – we will be using these files throughout the course!
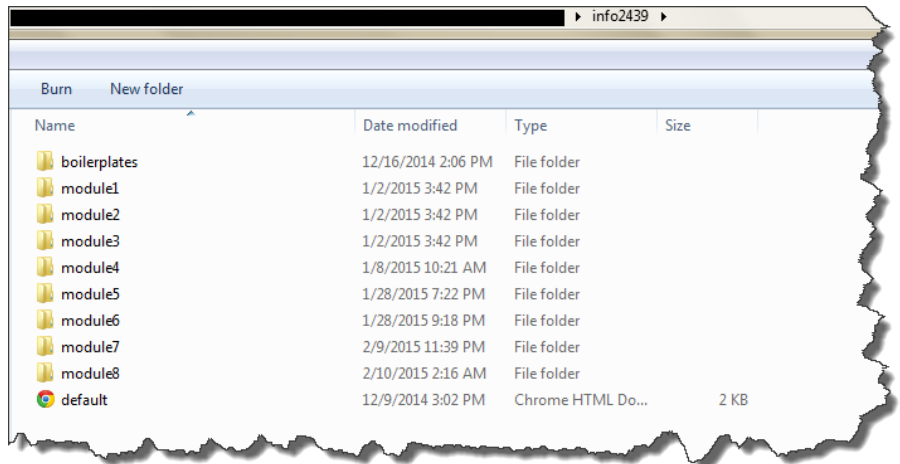   a. Consider putting them on a flash drive and/or in your MCC Student OneDrive.

Figure 1

TASK 2 *(15 POINTS)*

1. Inside the **info2439** folder, create a new folder named **module8**: **info2439/module8**.
2. After creating your module8 folder, also create four additional subfolders named **exercises, _css, _icons, _images, _includes** and **_js** inside of module8: See Figure 2
3. Using the updated HTML5 boilerplate file created in *Week #3*, begin coding the following textbook tutorials and save the files accordingly in the exercises subfolder defined in *step #2* above unless otherwise directed below.
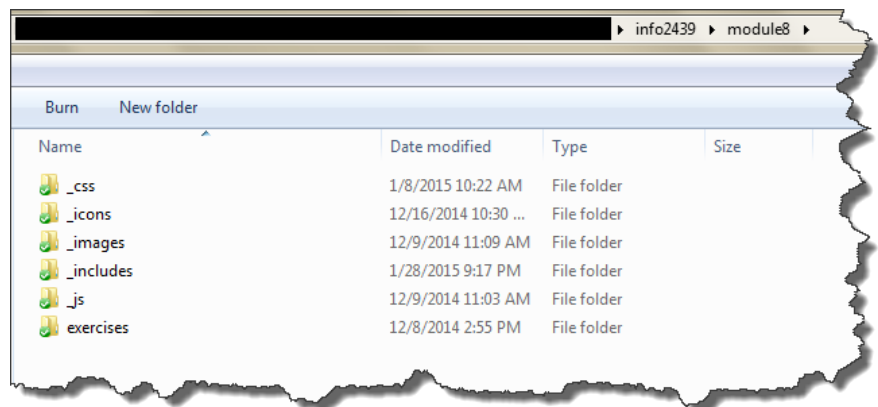

Figure 2

4. Complete the following tutorials from *textbook #1* (page numbers are for the printed textbook):
   a. Working with PhoneGap Build
      (**pg. 194-196**) - <mark>app1.zip</mark>
   b. Adding PhoneGap functionality
      (**pg.197-201**) - <mark>index.html</mark>

```
10   </head>
11   <body>
12   <!-- Art Brown
13        default.html
14        INFO2439.WW
15        Brown
16        12/01/14
17   -->
```

Figure 3

```
18   <div data-role="page" id="homePage" data-t
19
20      <div data-role="header">
21          <h1>Art Brown</h1>
22      </div><!-- Closing Header Div -->
23
24      <div data-role="content">
25          <p>Page Body Content</p>
26
27      </div><!-- Closing Content Div -->
28
29      <div data-role="footer">
30          <h4><em>Created by <a href="mailto:
31      </div><!-- Closing Footer Div -->
32      </div><!-- Closing Page Div -->
33   </body>
34   </html>
```

Figure 4

NOTE #1: Please save the app1.zip and index.html in your **_exercises** subfolder and their supporting files in their respective folders as outlined in the text. Additionally, when creating your PhoneGap Builds, it's anticipated that the Android, BlackBerry or Windows Builds will be the only downloadable app formats.
Note #2: Please be sure to add the applicable opening comments as shown in Figure 3. Additionally, ensure your file includes <mark>html comments</mark> similar to those shown in Figure 4 to all of the above exercise files.
Note #3: Please remember to validate all code (html and css) using the [w3c validators](#).

TASK 3 *(30 POINTS)*

1. If necessary create a new PhoneGap Build Service account at the [PhoneGap Build website](#).
2. Provide a screenshot document titled **LastName_Assignment7** for the assignment dropbox to verify your new PhoneGap account creation.
3. Using your course home page, create a native android version of your mobile web application.
4. Additionally, **after reviewing the documentation on Plugins** on the following site:
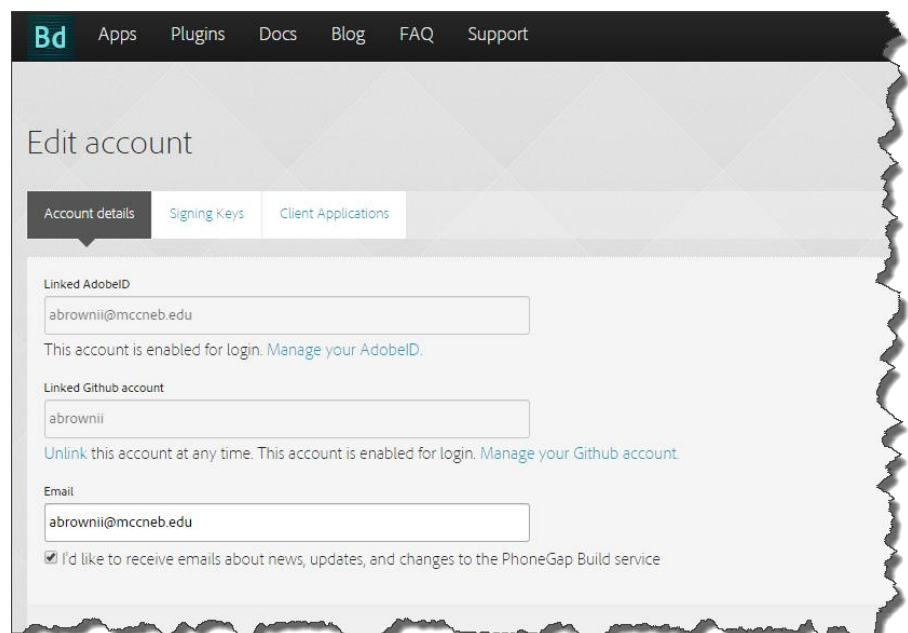
Bd Apps   Plugins   Docs   Blog   FAQ   Support

Edit account

Account details | Signing Keys | Client Applications

Linked AdobeID
abrownii@mccneb.edu
This account is enabled for login. Manage your AdobeID.

Linked Github account
abrownii
Unlink this account at any time. This account is enabled for login. Manage your Github account.

Email
abrownii@mccneb.edu

☑ I'd like to receive emails about news, updates, and changes to the PhoneGap Build service

Figure 5

http://docs.build.phonegap.com/en_US/configuring_plugins.md.html#Plugins,
Please choose at least one Plugin from the **PhoneGap Build Plugin Repository** located at
https://build.phonegap.com/plugins to incorporate in your course home page.

5. Create a new **assignment7.html** mobile web page to describe which plugin you selected.
6. Save an updated version of your page including all assets into a zip file.
7. Upload the zip file to Phone Gap Build to be compiled.
8. Provide an enlarged screenshot of your PhoneGap Application's QR Code as shown in *Figure 6* to your **LastName_Assignment7** file.
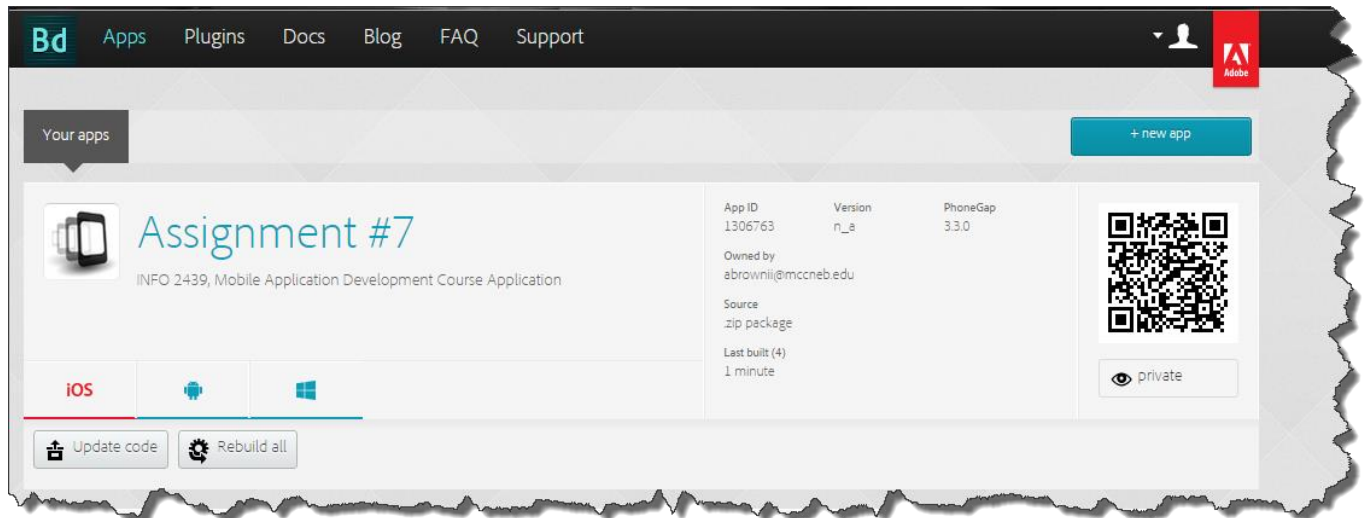9. Your instructor will use this QR code for grading purposes to test and download your app to an Android device.

<div align="right">**Figure 6**</div>

Note #1: Please be sure to add the applicable opening comments as shown in Figure 3. Additionally, ensure your file includes ==html comments== *similar to those shown in Figure 4 to all of the above Task 3 files.*
Note #2: Please remember to validate all code (html and css) using the w3c validators.

SUBMISSION *(5 POINTS)*

1. Compress the **module8** folder into one (1) ZIP archive:
    a. The folder should contain the completed Chapter 12 guided exercises from the textbook along with assignment 7 file and assets.
2. Rename the new ZIP file **LastName_Assignment7.zip** – make sure your extension is ZIP, otherwise Blackboard may not allow me download your archive.
3. Upload your **LastName_Assignment7.zip** file to the **Module 8** dropbox in Blackboard.
4. Also, be sure to include the hyperlink to your uploaded mobile assignment page in the Blackboard dropbox message field:
http://student.mccinfo.net/~username/info2439/module8/assignment7.html
5. Submit.