ITIS/ITCS 4180/5180 Mobile Application Development In Class Assignment 9

Basic Instructions:

- 1. In every file submitted you MUST place the following comments:
 - a. Assignment #.
 - b. File Name.
 - c. Full name of all students in your group.
- 2. Each group should submit only one assignment. Only the group leader is supposed to submit the assignment on behalf of all the other group members.
- 3. Your assignment will be graded for functional requirements and efficiency of your submitted solution. You will loose points if your code is not efficient, does unnecessary processing or blocks the UI thread.
- 4. Please download the support files provided with this assignment and use them when implementing your project.
- 5. Create a zip file of your Framework 7 project with its related files.
- 6. Submission details:
 - a. Only a single group member is required to submit on moodle for each group.
 - b. The file name is very important and should follow the following format:

Group# InClass9.zip

- c. You should submit the assignment through Moodle: Submit the zip file.
- 7. Failure to follow the above instructions will result in point deductions.

In Class Assignment (100 Points)

In this assignment you will build a simple Photo browser app using Framework7. The app will enable users take pictures and see the photo gallery as slide show. In this assignment you will learn how to set up UI using Framework7. This Assignment will form the foundation for next weeks In Class Assignment where you will learn how to convert it into a Hybrid application that runs on Android.

Important App Requirements:

- 1. Install node.js and open the command prompt. (https://nodejs.org/en/download/)
- 2. Install gulp (sudo npm install -g gulp Or npm install -g -save-dev gulp).

In this Assignment, we will build a simple photo browser app. Please follow the instructions on how to setup a Framework7 app.

Steps to setup UI using Framework7:

- Download Framework-7 library : https://github.com/nolimits4web/Framework7/
- 2. In terminal/ command line, navigate to downloaded folder and type:

```
$ gulp build && gulp server
```

3. By default you will be redirected to http://localhost:3000/index.html. This is the kitchen sink, which is simply a showcase of all the components that comes along with Framework7

Note: if gulp build && gulp server issues errors saying module is missing then please install that module using npm –install –g –save-dev 'modulename'

- 4. You can access downloaded examples as well, for instance, if you want to access the inline-pages example, type the following URL:
 - http://localhost:3000/examples/inline-pages/
- 5. Open index.html and please make sure it has the following line in the file: <script type="text/javascript" src="js/framework7.js"></script>
- 6. There is two ways to start working on your project. You can either start from an existing example or you can build one from scratch after copying all required files (CSS, JS) into your directory. We recommend you start from an existing app (inline-pages for example).

App Description: This is a simple photo browser app built using standard web technology (html, javascript and css). The app enables users to view photos as slide show. For UI, Framework7 standard library will be used. We will use one of the templates provided by Framework7.

The app consists of 2 views:

Home View

The initial view of the app will contain will basically contain main navigation items to different views. See Figure-1(a)

- 1. The Home view should have 2 buttons named "Take Picture!" and "View Gallery"
- 2. At this point, we will leave "Take Picture!" action to next week.
- 3. "View Gallery" button should start the Photo Browser plugin. For this assignment we are using the Dark-themed one.





(a) Home View

(b) Gallery View

Figure 1: App Views

Gallery View

As you can see in Figure-1(b), the Gallery view that shows the images hardcoded in myapp.js. We have used the following image URLs in this assignment:

- https://farm9.staticflickr.com/8645/16031539611_b45d2bbe57_z.jpg
- https://farm4.staticflickr.com/3933/15296234239_4f11d889a8_z.jpg

- https://farm3.staticflickr.com/2949/15296430490_3366e6f050_z.jpg
 https://farm4.staticflickr.com/3937/15483139575_c6eced4510_z.jpg

You are free to use any image URL, however, your photo browser should view at least 4 images.