ASSESSMENT 05

NETWORKING

Complete the following app that uses various iOS networking requests. This assessment leverages many skills we used earlier in the course to create table views with segues, develop a data model, etc., and augments the app with standard networking capabilities.

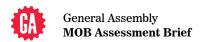
GOALS OF ASSESSMENT

- · Gain familiarity with iOS networking methods.
- · Handle network errors.
- Make requests to JSON services and parse the contents into Swift data structures.
- · Deploy those data structures in a news reader app.

REQUIREMENTS

Your app must:

- In the main view controller, add a single table view.
- In the onViewDidLoad method, start a network request for a JSON news source like https://www.designernews.com/?format=json
- Parse the JSON response using SwiftyJSON and update the table view.
- Design a data model that encapsulates all the "Stories" downloaded from the news source and represents each Story as a class.
- In the table, each cell should be of the "Subtitle" type and show the following:
 - In the main text label, show the title of the Story.
 - In the detail text label, show another field of your choice (e.g. date published, author's name, excerpt from the body text, etc.)
- When you tap on a row in the table, the app should segue to another View Controller.
- That view controller should contain a scrollable view that shows:
 - · The title of the Story.
 - The body text of the story, if available.
 - Two other pieces of data (e.g. date published, author's name, etc.)
- From the main view controller, have a button in the navigation bar that segues to another View Controller that shows:
 - Attempts to connect to a non-existent page on example.com
 - · Shows the status code in a UILabel.
 - Shows the resulting error message in a UILabel.
 - · Show the content of the page in a UIWebView.



- Hint: Cast the "response" variable to NSHTTPURLResponse.
- BONUS
 - Use AFNetworking to make requests.

DELIVERABLES

• The app project (code, resources, project file) zipped and posted to Dropbox.

WAYS TO GET STARTED

Review the following questions:

- What is HTTP? URL? Network?
- What is a request? Response?
- · What can go wrong with network requests?

RESOURCES

- SwiftyJSON: https://github.com/SwiftyJSON/SwiftyJSON
- SWXMLHash: https://github.com/drmohundro/SWXMLHash
- AFNetworking: https://github.com/AFNetworking/AFNetworking
- https://developer.apple.com/library/ios/documentation/Foundation/Reference/ NSURLSession_class/
- $\verb|\https://developer.apple.com/library/ios/documentation/Cocoa/Conceptual/\\ URLLoadingSystem/URLLoadingSystem.html|$