



# ASSESSMENT 05

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## 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.

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### 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.

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### REQUIREMENTS

#### Your app must:

- › In the main view controller, add a single table view.
- › In the viewDidLoad method, start a network request for a JSON news source like <https://reddit.com/.json> or <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](http://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 NSURLResponse.
- BONUS
  - Use AFNetworking to make requests.

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## DELIVERABLES

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

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## 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?

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## 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/](https://developer.apple.com/library/ios/documentation/Foundation/Reference/NSURLSession_class/)
- <https://developer.apple.com/library/ios/documentation/Cocoa/Conceptual/URLLoadingSystem/URLLoadingSystem.html>