Technology Assessment

Exercise 1

- Low Level Design
- Software Development Practices
- Hands-on Programming

NY Times Most Popular Articles

Description

Build a simple app to hit the NY Times Most Popular Articles API and show a list of articles. You should use either **Android or Swift**.

We'll be using the most viewed section of this API.

http://api.nytimes.com/svc/mostpopular/v2/mostviewed/{section}/{period}.json?apikey=sample-key

To test this API, you can use all-sections for the section path component in the URL above and 7 for period (available period values are 1, 7 and 30, which represents how far back, in days, the API returns results for).

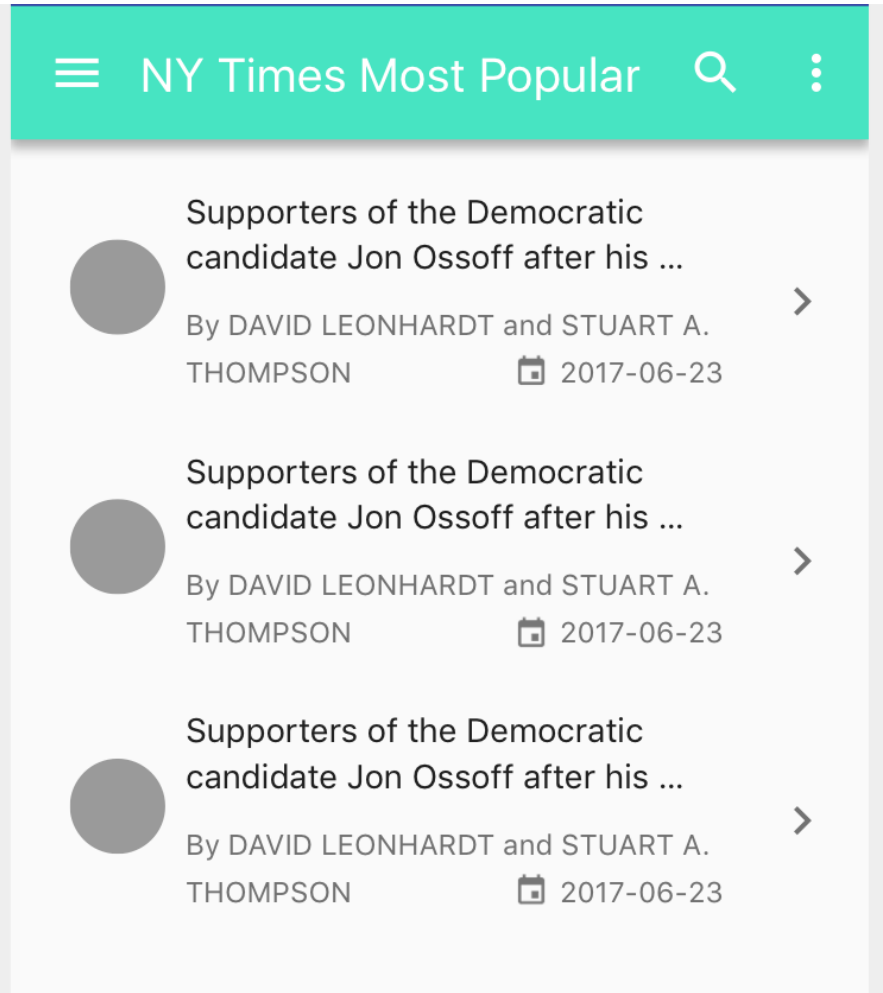
http://api.nytimes.com/svc/mostpopular/v2/mostviewed/all-sections/7.json?apikey=sample-key

API Key's can be generated at https://developer.nytimes.com/signup.

Below is an example of what a layout could look like. Use your own idea's for the layout represented below are not mandatory requirements for this exercise, we are most interested in code and patterns implemented for the list view and repeating controls based on API results.

Mandatory Features
List articles
Networking Implementation
Unit Testing Implementation

Optional Features
Filter/Search
Menu
Settings



Developed code should be pushed to GitHub with a clear README.md explaining how to build and run the code. **WebViews** are not allowed in this exercise. What we care about:

Required Activities

- Object oriented programming approach
- Good UI approach e.g. MVC, MVVM, MVP, etc. Please specify the pattern used
- Example of Unit tests using Junit, XCTest (please use patterns that you would use as per a production implementation)
- Leverage today's best coding practices e.g. Swift, Android coding standards
- Clear README.md that explains how the code and the test can be run

Create a GitHub repository, ensure the name is generic and doesn't have any company names. Commit your code to the GitHub repository and share the link with us. Only share a link, do not send the actual code files

Follow up Discussion

After completing the exercise please be ready for 15 minutes' discussion on your key decisions, assumptions and rationale for your implementation.