

Technology Assessment

Exercise 1

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

NY Times Most Popular Articles

Description

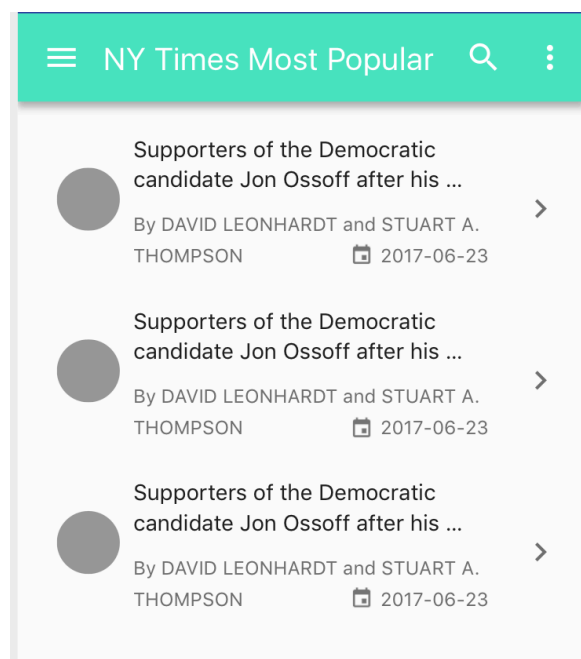
Build a simple app to hit the NY Times Most Popular Articles API and show a list of articles, that shows details when items on the list are tapped (a typical master/detail app). You should use either **Android** or **Swift**.

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

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



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
- Unit tests using Junit, XCTest, to achieve good code coverage
- Some UI tests using espresso, XCUITest, etc.
- Code to be generic and simple
- 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 and how the coverage reports can be generated

Bonus Activities

- Create scripts, e.g. Gradle, Fastlane, etc. to:
 - build the project from the command-line
 - run static code analysis such as linting
 - run unit tests and code coverage
- SonarQube report for the code showing its quality summary

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.