

Media listing app- iOS

Acme Inc. has been tasked with creating a media listing app to surface their media content to users. This should be achieved by creating native iOS application exhibiting MVVM patterns which runs on iOS9+ devices. Users of the app should be able to scroll a vertical list of categories, with each category capable of being independently scrolled horizontally.

A media listing endpoint can be accessed on <https://pastebin.com/raw/8LiEHfwU>. It contains a list of categories and media assigned to those categories in the format outlined below:

```
category: String
items[]:
  title: String
  year: Integer
  description: String
  images:
    portrait: String (URL)
    landscape: String (URL)
```

Requirements

- Implement the **wireframes** provided below for tablet
- Single View Controller application (use child VC's as required)
- Implement a vertical Table View (taking up all available screen size), which consists of child Collection Views of horizontal orientation
- All horizontal rows must scroll independently of each other (no Grid arrangement)
- Async load and show a 2D data array of simple title / image elements
- No third-party code / libraries must be used for UI (they can be used for other elements of the application)
- Programmatic layouts only (no Storyboards or xibs)
- Use of AutoLayouts for layouts
- Include Unit Tests

Bonus Tasks

- Prefer Swift
- Prefer MVVM over MVC pattern
- Clicking on a media element should animate the it into a full screen View Controller displaying the tile (second wireframe)
- Demonstrate the good usage of Protocol Oriented Programming if using Swift
- Follow a coding style guide (Ray wenderlich, GitHub or any)
- No compiling warnings
- No third party library is used
- Mobile layout

Evaluation Criteria

- All requirements are completed / met
- Objective oriented design with clearly separated and loosely linked entities
- Good use of caching (file, memory; data preloading)
- Usage of data structures
- Clear layout constraints
- Use Multithreading / Asynchronicity when needed
- Well written git commit history

Deliveries

- Provide the code as a complete git repository or a link to a github/bitbucket/public repo
- The source code must compile with no errors in an iOS environment

Wireframes



