

## Abercrombie & Fitch Code Test

### Introduction

The Explore tabs on the A&F mobile apps are the central landing experiences for the A&F mobile shoppers. These views allow shoppers to scroll through promotions, product recommendations, and featured categories. The goal of this exercise is to recreate a subset of those requirements and generate promotion cards similar to the ones shown on our Explore pages today. Below is an example of one of these product cards.

### Requirements

#### Novice

Demonstrate your knowledge of the tools and techniques needed to develop and maintain best-in-class apps used by millions of customers worldwide. After downloading the starter project for your platform of choice, inspect the contents and find the static JSON and image assets.

Your job will be:

use git to create a new branch for your changes

find and fix the existing run time crash

**Update the existing User Interface:** Parse the data and assets to implement the following design requirements.



A&F ESSENTIALS 2

TOPS STARTING AT \$12 3

USE CODE: 12345 4

\*In stores & online. Exclusions apply. See Details 5

Shop Men 6

Shop Women

JSON Data:

1. backgroundImage
  - a. The size of this can vary and the Image view should change size based on the size of the image provided.
  - b. You can assume that image will always be the full width of the product card
2. topDescription
  - a. Font Size: 13
3. title
  - a. Font Size: 17 (BOLD)
4. promoMessage
  - a. Font Size: 11
5. bottomDescription
  - a. Font Size: 13
6. content
  - a. Can contain zero or more Items. Each item in the list should be represented by a button
    - i. Title
      1. Font Size: 15
    - ii. Target
      1. The URL the button should link the user to

The Apps team maintains a very high level of code coverage. After you are satisfied with your implementation of the design requirements be sure to fix any failing tests as well as add tests for your new code. Be sure to commit your changes with a clear message explaining your updates to the code base.

### Journeyman

Demonstrate your knowledge of SOLID principals by building on the previous requirements and adding classes/structs and or protocols/interfaces to parse the JSON file and pass that data to the existing view controller. Be sure to add/update any tests for your new code. (HINT: We encourage use of structs that conform to Apple's "Codeable" protocol to help accomplish this task).

### Advanced

It's time to make the app more dynamic and show off your App architecture skills. An API is now available at

"[https://www.abercrombie.com/anf/nativeapp/qa/codetest/codeTest\\_exploreData.json](https://www.abercrombie.com/anf/nativeapp/qa/codetest/codeTest_exploreData.json)"

This API will return the same JSON payload that the code is structured around. Add and or augment any classes/structs/protocols/interfaces to read from the URL at start up and refresh the data when the App comes to the foreground. Images from URLs included in the API

response should be fetched asynchronously in the background to prevent any lag/locking of the UI. As before, be sure to update/add unit tests to ensure good code coverage, and a clear and concise commit message to communicate your updates.