Job Interview Project

Position: iOS Developer

Introduction

This document describes the design and functionality of a test project for the iOS platform as a part of the job interview for the position “iOS Developer”. The aim of this project is to get us an overview of your programming capabilities. Wish you good luck!

Description

The test project will be a native iOS application that should be created as an XCode project (version 9.4 or higher) and should also support both landscape and portrait device orientations. The result of your work should be a buildable application able to run on an iOS device (iPad or iPhone) with iOS 10.0 or higher.

Instructions

Create an iOS application for browsing the latest movies, display a short detail page of a selected movie and play a short movie trailer. For this purpose you are going to use “**The Movie Database API**” (https://developers.themoviedb.org/3/getting-started). To use the API you need to register and get an “**api_key**” (https://www.themoviedb.org/account/signup).

1. The first screen of your application should display an easy catalog with the most popular movies (see Picture 1 and Picture 2). Use the following API call to get the list of the movies: https://api.themoviedb.org/3/movie/popular?api_key=### (for more info see: https://developers.themoviedb.org/3/movies/get-popular-movies).

2. After selecting one of the titles the application should navigate you to the detail page of the movie (see Picture 3 and Picture 4). Use the following API call to load the needed detail information: https://api.themoviedb.org/3/movie/271110?api_key=### (for more information see: https://developers.themoviedb.org/3/movies/get-movie-details)

3. After pressing the “**Watch Trailer**” the application should display a full screen movie player and should automatically start the playback (to get the needed urls use the “movie/#MOVIE_ID#/videos” API call). After the trailer is finished the player should be automatically closed, and the app should return to the detail page. The playback can be also cancelled by pressing the “Done” button.

4. *OPTIONAL TASK 1:* Handle “offline mode” in the app.
5. *OPTIONAL TASK 2:* create a search functionality in the catalog page by filtering content downloaded.
6. *OPTIONAL TASK 3*: support both iOS device types (iPad and iPhone).
7. *OPTIONAL TASK 4*: create at least one unit test!

Hints

- Attached designs could be a style guide, feel free to innovate.
- Write your code in production quality, in a reusable way and comment it.
- Optional tasks 1 and 2 are strongly recommended.

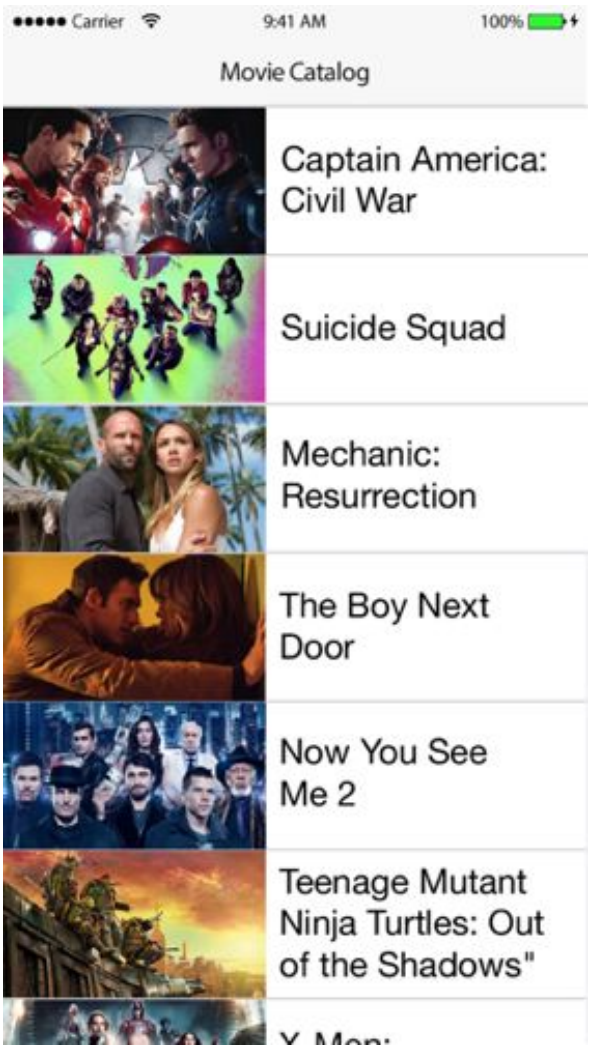
Results

The results of your work should be a buildable iOS app in XCode 9.4 or later. We strongly recommend you to create a Git repository for your project, and share the repository URL with us.

Your source code will be evaluated with a possibility of personal discussion with the Apple development team.

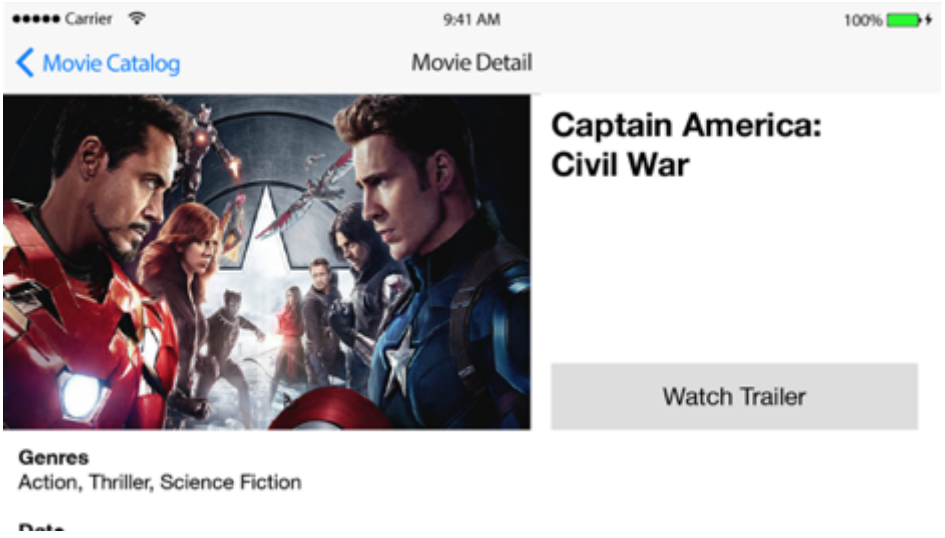
Design ideas

Picture 1 (Catalog in portrait)



Picture 2 (Detail in portrait)

Picture 3 (Detail in landscape)



Picture 4 - 5 (Search functionality)