

Android Challenge

Intro

In this challenge you will make a simple movie application. While you are following the challenge you will see some terms which are required, optional, bonus.

Required means, minimum requirements of the app that you are creating, you have to implement them to your app.

Optional means, you can add these features to your app but if you don't have time you can pass them it's not affect our evaluation negatively but if you do you may earn extra points.

Lastly, bonus means, some general wants from you. These related to the application in general rather than the screens specifically. For sure you may earn extra points.

Before you start

You must use [The Movie Database \(TMDb\)](#) api's. Before you start you need to do correct configurations to use The Movie Database api's.

For the design you should need to check the [Sketch link](#). You can find all design elements and the margin values on this link.

Challenge

If you are all set, let's dive into the challenge. First you will find the general requirements and general optional of the app, after that challenge will go screen by screen. Each screen's page there will be a small design of the page, description of what we want in this screen as detailed as possible, and if screen has, you will see optional and required features of this screen.

General Requirements

- App should be coded with Kotlin
- At least one 3rd party library should be implemented with Gradle.
- All screens should be pixel perfect design.
- App should be fully functional.
- Clean architectural design.
- Dependency Injection
- Navigation Graph
- Data Binding & View Binding

General Optionals

- Git & Proper Gitflow Usage & gitignore file

Bonuses

- Clean code style.
- Abstracting the 3rd party libraries.
- MVVM Architecture
- High Order Function usage

Main Screen

This will be our first and main screen. In this screen we want a slider on top of the screen, for the now playing movies. Under the slider we want an upcoming movies list. This screen should scroll entirely, means when the user scrolls down the top slider should move. When the user taps the movies either on list or slider you should redirect them to the movie detail page.

Screen Requirements

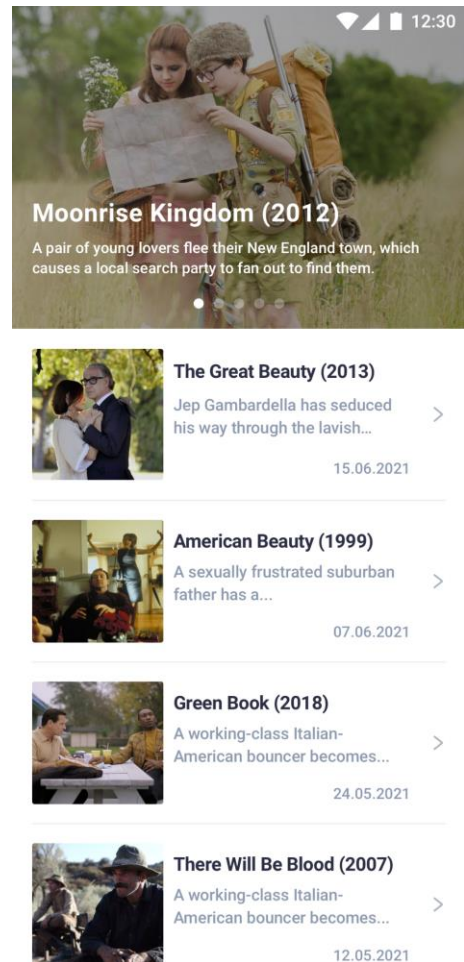
- Paginations & Pull To Refresh

Screen Optionals

- Error & Load handle

Required Api's

- **`/movie/now_playing`** for slider.
- **`/movie/upcoming`** for list.



Movie Detail Screen

This is the last page of our application. In this screen we are giving a movie image on top of the screen. Under the movie image we have rating, release date, IMDB icon, title and description. Description should fit according to the length of it. This screen should scroll entirely, means when the user scrolls down, movie image and all other elements should scroll.

Screen Optionals

- IMDB redirection with `imdb_id`
- Error & Load handle

Required Api's

- `/movie/{movie_id}`. for movie details.



IMDb ★ 7.8/10 • 15.06.2021

Moonrise Kingdom (2012)

Moonrise Kingdom is a 2012 American coming-of-age comedy-drama film directed by Wes Anderson, written by Anderson and Roman Coppola. It features an ensemble cast including Bruce Willis, Edward Norton, Bill Murray, Frances McDormand, Tilda Swinton, Jason Schwartzman, Bob Balaban, Harvey Keitel, and newcomers Jared Gilman and Kara Hayward. Largely set on the fictional New England island of New Penzance, it tells the story of an orphan boy (Gilman) who escapes from a scouting camp to unite with his pen pal and love interest, a girl with aggressive tendencies (Hayward). Feeling alienated from their guardians and shunned by their peers, the lovers abscond to an isolated beach. Meanwhile, the island's police captain (Willis) organizes a search party of scouts and family members to locate the runaways.

In crafting their screenplay, Anderson and Coppola drew from personal experiences and memories of