

AMRO

AMRO, the Advanced Movie Recommendation Organisation, has asked you to help them build the first version of their Android application. AMRO is a new start-up looking to disrupt the movie data space by providing users with personalized movie recommendations and detailed movie information in an intuitive app experience. Their goal is to rapidly expand in this promising and lucrative industry, and the success of their app is crucial for attracting early adopters and potential investors.

As part of their launch strategy, AMRO wants to release a Minimum Viable Product (MVP) as soon as possible. Your job is to create a functional and user-friendly Android application that showcases their core features and sets the stage for future development.

Once they've passed the MVP stage, their ambition is to hire multiple feature teams who each will be responsible for a set of features that will later be added on top of the existing base, such as; actor info, user profiles, streaming, social media, etc. They also have a wish to eventually offer their features offline and collect their data from multiple API sources.

There's no plans for an iOS app, since the entire executive team owns Android phones.

AMRO is relying on this MVP to make a strong first impression in the movie industry. They want to show potential users and investors that their platform can deliver an engaging and personalized movie experience. Your work will play a key role in helping AMRO achieve this—and setting the foundation for their future success.

Assignment

AMRO has outlined the following requirements for the MVP app:

Trending Movie List Screen:

Create a screen that displays a list of this week's top 100 trending movies.

Each movie should be shown with at least:

Title	Image	Genre
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Users should be able to filter based on genre in the shown top 100 movies.

Example: If the top 100 trending movies has 20 comedies, filtering for comedy will show those 20 comedies. It does not need to try and find 100 comedies in the total trending list.

Users should be able to sort based on popularity (default), title, and release date, with descending or ascending as option.

Movie Detail Screen:

When a user selects a movie from the list, they should be taken to a detail screen that displays more information about the movie.

Show at least:

Title		
Tagline	Image	Genre
Description	Vote average	Vote count
Budget	Revenue	Status
Link to IMDB	Runtime	Release date

Additional requirements

The app should have a clean and intuitive design that enhances the user experience. AMRO wants users to feel excited about exploring movies on their platform.

Include basic error handling to manage scenarios like network issues or empty/error API responses.

The architecture of the app should be scalable and maintainable, as AMRO plans to add more features in future versions.

Automated tests are important to AMRO and they expect you to use your expertise to get them started in the right direction.

API info

The first API they want to connect with is TMDB.

Some useful links:

- [Authentication info](#)
- [Trending movies](#)
- [Genres](#)
- [Movie Details](#)
- [Images](#)
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How to deliver

Share a public GitHub project with us.

You can make this private or remove it once the interview process is over.

What to expect from the assignment and interview process

We want to be transparent about our expectations and the process, so we all can get the most out of this assignment.

Carefully read through this entire document. We expect you to consider AMRO's future plans and ambitions.

We expect a well-functioning app that features all the requested requirements and is set up in a way to best support AMRO's future.

The MVP should be in a releasable state both from the perspective of a user and of a developer needing to work on it. This includes a high degree of test coverage and a well thought out test strategy.

You are free to use any tool and library to help you with your assignment.

While we do not expect you to create an amazingly elaborate UI, it is a bonus to create a nice-looking app that showcases your layout and design skills and knowledge.

Similarly, any extra features or going out of your way to make the requested features (work) above and beyond is an appreciated bonus.

Include a README file that's written as if you're doing a handover, to give an overview of the project, libraries used and choices made, or anything else you'd like to let us know.

In the follow-up interview you'll be asked to walk through your project and explain your choices. Expect to get questions about your chosen architecture and libraries, (clean) code details, compose, testing etc.

You will not be expected to live code but do have your project open and built so you can navigate through it easily while screen sharing.