

Assignment Project

Create a native Android mobile app that searches for Movies & TV shows using <https://www.themoviedb.org/> API.

Your app should give users the ability to **search** for movies & tv shows and navigate to a **detailed view** of the show selected. You can write it in Java, Kotlin or both.

Implement the following two Screens:

- **Search Screen**

1. Requires an input field so that the user can type and perform search and a recycler view to display the results
2. Each displayed item must at least have a thumbnail of the movie poster and a title (optional: release date, ratings)
3. Upon selection users will be navigated to the Details Screen

- **Details Screen**

1. Screen will display the following details: show image, title, summary, genre (only first), trailer if applicable.
2. Watch List (requires changes in Search Screen)
 - User must have the ability to add movie/show to a watch list. Basic information should be saved to a local persistent storage (e.g. database) to be able to be retrieved between different sessions.
 - Upon having at least one show inside the watch list, a choice should be available in the Search Screen that will display all watch list items. (same UI and functionality as a normal search however this time items are retrieved from your store)

General Guidelines (expected)

- Application should be allowed to change between orientations (properly handle a restart, **do not prevent** Android from restarting the running Activity)
- Pagination for Search Screen

(nice to have)

- Application UI should be based on Material Design principles and libraries
- Project Architecture with MVP, MVVM or similar
- A different layout for Tablet screens based on Master-Details flow
- Usage of Android Architecture Components (Room, ViewModel and LiveData)
- Usage of Dependency Injection
- Usage of Rx java/ Rx Kotlin/ Kotlin Coroutines

API reference: <https://www.themoviedb.org/documentation/api>

API key: 6b2e856adafcc7be98bdf0d8b076851c

Search endpoint:

https://api.themoviedb.org/3/search/multi?api_key=<API_KEY>&query=<SEARCH_QUERY>&page=<PAGE_NUM>

Movie details: https://api.themoviedb.org/3/movie/<MOVIE_ID>?api_key=<API_KEY>

TV Show details: https://api.themoviedb.org/3/tv/<TV_ID>?api_key=<API_KEY>

Deliverables: Full project source code via Bitbucket or GitHub, working apk file