Top5Movies

Overview

Top5Movies is a movies details app, which shows popular movies of each year. The API is used only for the technical task of SWVL.

App Features

- The app fetches Top5 popular Movies and displays it in RecyclerView.
- The app built on a single activity principle, so the movies list and detail of movies will show on the single screen
- The app shows a shimmer effect while data is being fetched from the server.
- Error cases handled and an error screen with the retry button is shown in case of error.
- The app has both night and day mode.

App Architecture

Application is built with clean code architecture suggested by the Google Android Developers.
This project includes

- Kotlin - First class and official programming language for Android development.
- Retrofit - Integrate with network layer and fetch data from API.
- Coroutines - For asynchronous and more.
- Android Architecture Components - Collection of libraries that help you design robust, testable, and maintainable apps.
- Flow - A flow is an asynchronous version of a Sequence, a type of collection whose values are lazily produced.
- Jetpack DataStore - Jetpack DataStore is a data storage solution that allows you to store key-value pairs or typed objects with protocol buffers. DataStore uses Kotlin coroutines and Flow to store data asynchronously, consistently, and transactionally
- LiveData - Data objects that notify views when the underlying database changes.

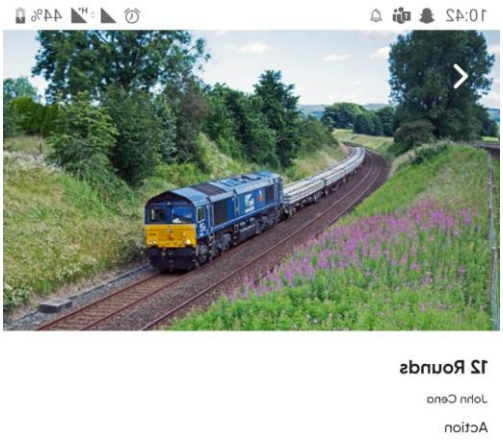
- ViewModel - Stores UI-related data that isn't destroyed on UI changes.
- Jetpack Navigation - Navigation refers to the interactions that allow users to navigate across, into, and back out from the different pieces of content within your app
- Material Components for Android - Modular and customizable Material Design UI components for Android.
- Dagger-Hilt - Modular and customizable Material Design UI components for Android.

App Package Structure

- **data** package containing classes related to API, response, data store, model and repository.
- **di** package containing classes for dependency injection (modules, components).
- **UI** package containing classes for activity, fragments and adapter.
- **Util** package containing all utility methods/extensions used in the app.

Screenshots: **NIGHT MODE**

DAY MODE



Final Note

You can write to me on this emai shkwaleed92@gmail.com if you have any suggestion related to architecture and clean code practices.