

PROJECT SPECIFICATION

Popular Movies, Stage 2

Common Project Requirements

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App is written solely in the Java Programming Language.

App conforms to common standards found in the [Android Nanodegree General Project Guidelines](#).

User Interface - Layout

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UI contains an element (e.g., a spinner or settings menu) to toggle the sort order of the movies by: most popular, highest rated.

Movies are displayed in the main layout via a grid of their corresponding movie poster thumbnails.

UI contains a screen for displaying the details for a selected movie.

Movie Details layout contains title, release date, movie poster, vote average, and plot synopsis.

Movie Details layout contains a section for displaying trailer videos and user reviews.

User Interface - Function

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When a user changes the sort criteria (most popular, highest rated, and favorites) the main view gets updated correctly.

When a movie poster thumbnail is selected, the movie details screen is launched.

When a trailer is selected, app uses an Intent to launch the trailer.

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In the movies detail screen, a user can tap a button(for example, a star) to mark it as a Favorite.

Network API Implementation

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In a background thread, app queries the `/movie/popular` or `/movie/top_rated` API for the sort criteria specified in the settings menu.

App requests for related videos for a selected movie via the `/movie/{id}/videos` endpoint in a background thread and displays those details when the user selects a movie.

App requests for user reviews for a selected movie via the `/movie/{id}/reviews` endpoint in a background thread and displays those details when the user selects a movie.

Data Persistence

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The titles and ids of the user's favorite movies are stored in a `ContentProvider` backed by a SQLite database. This `ContentProvider` is updated whenever the user favorites or unfavorites a movie.

When the "favorites" setting option is selected, the main view displays the entire favorites collection based on movie ids stored in the `ContentProvider`.

Suggestions to Make Your Project Stand Out!

- Extend the favorites `ContentProvider` to store the movie poster, synopsis, user rating, and release date, and display them even when offline.
- Implement sharing functionality to allow the user to share the first trailer's `YouTube` URL from the movie details screen.