

# The Movie database

We have all seen the IMDB app. It has simple functionality. i.e. it displays the list of movies given in any category. Now you have to build an application that does something similar. Below, you will find the required information to build the app.

## Requirements

- Get the popular list of movies and render it as a list from API / static JSON (find the details about data in the [“Data for the App”](#) section).
- Here the user should be able to see the title of the movie, thumbnail image, rating and playlist name (if that movie is added to a Playlist).
- You can add a movie to a Playlist by tapping the Star icon which opens up a bottom sheet.
- In the bottom sheet, you can choose to add the movie to an existing playlist or a new playlist. The playlist needs to be **persisted** locally.
- Tapping the new playlist will open up a dialog, to input the name of the playlist and save it.
- You can also Filter list of movies by Playlist. The movie list would reflect the filtered state.
- The app should support portrait mode only.

## Expectation

### 1. Code style & modularity - 60 points

We would like your code to be as close to production quality as possible. Imagine that this App will be used by Millions of users and you are part of the team which builds it. You can use architectural patterns like MVVM or MVP – anything other than MVC. The classes should be well segregated as views, models. Please don't write everything in a single class. You can use appropriate external libraries for building the app.

### 2. Extensibility and Abstraction - 20 points

If a new requirement comes up, how easy is it to modify the code? How many places would you have to touch in order to achieve the results? Fancy UI or animation is **not** expected. The image shown is only for reference; not a design specification.

### 3. Functionality expected - 20 points

- ☐ Parse the JSON file / make a network call and show the movies to the user
- ☐ Show the list of movies
- ☐ The Movie list will contain the title, image, rating and playlist info of the movie

- ☐ Tapping on Star should open a bottom sheet from where you can add to an existing playlist or create a new playlist
  - ☐ Create new playlist should open a dialog and ask for the name of the playlist.
  - ☐ Playlist should be persisted locally.
  - ☐ Should be able to filter movies by Playlist.
- The App should be in a compilable state for us to run and take a look.

## Data for the App

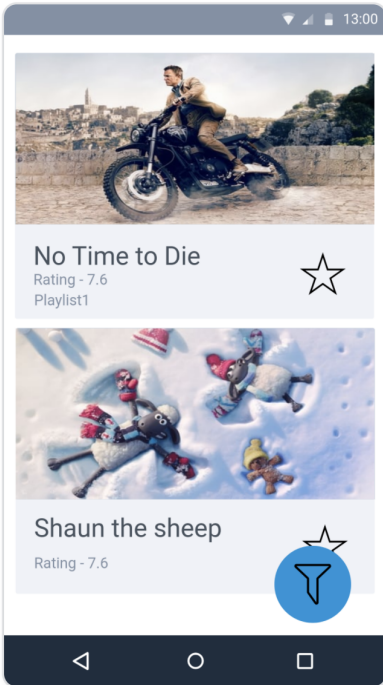
- Use static JSON [here](#) to fetch the data . You can read the documentation for popular movies here in case you want to use the network library, <https://developers.themoviedb.org/3/movies/get-popular-movies>. NOTE: Do not use the 'Try it out' option in the [link](#) on the browser. That may not work.
- You are allowed to use any library that is needed.
- The above JSON (from API) contains data required for both pages.
- API-key for the api is: **38a73d59546aa378980a88b645f487fc**
- The base path to download the image is: <https://image.tmdb.org/t/p/w500>  
eg: <https://image.tmdb.org/t/p/w500/p60VSQL7usdxztlGokJPpHmKWdU.jpg>

## Good to have (These are not mandatory in interest of time)

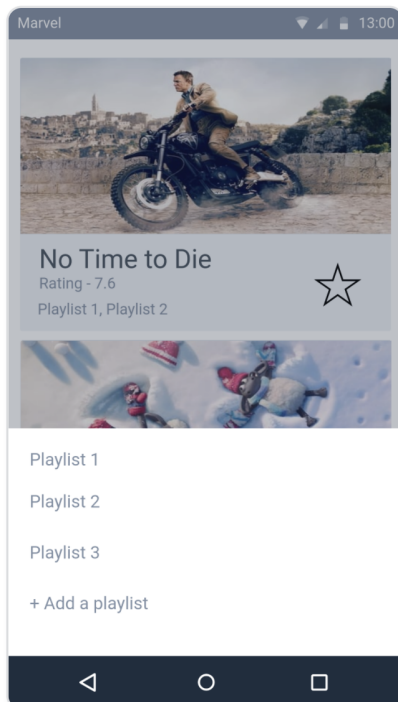
- Using a network library to fetch the data
- Usage of any DI library

## Sample Mocks

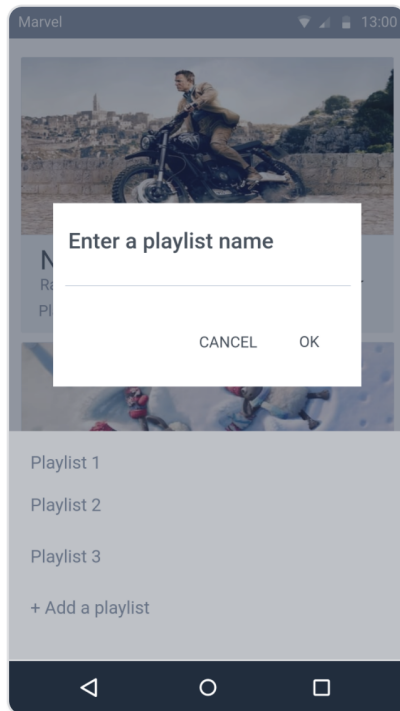
### 1. Movies List



2. Add movie to a playlist (Tapping on Star will open the playlist options)



3. Add a new playlist



4. Filter movies by playlist (Tapping on the overflow filter button will open the playlist bottom sheet. Feel free to substitute the bottom sheet with any other UI component that you think works well with the floating filter button)

