Mobile assignment CS

Technical Info

Build an application using TheMovieDB API, following the mocks attached separately. We expect you to implement following functionality in the app:

We have provided template application which will help you with fast tracking app development. It contains following:

1. MainActivity containing baseUrl and api key which is needed to fetch contents from TMDB Api.
2. Basic implementation of RecyclerView/UITableView to fetch contents and display them in list format.
3. Basic JSON parsing to parse server response and populate details.
4. Placeholder RatingView class

1. List horizontally currently playing movies.

API:

https://api.themoviedb.org/3/movie/now_playing?language=en-US&page=undefined&api_key={YOUR_KEY}

Only display poster images in horizontal scrolling list view, No pagination necessary.

2. Display the most popular movies in vertical listview, as this list will contain multiple pages, Pagination support will be required.

API:

https://api.themoviedb.org/3/movie/popular?api_key={YOUR_KEY}
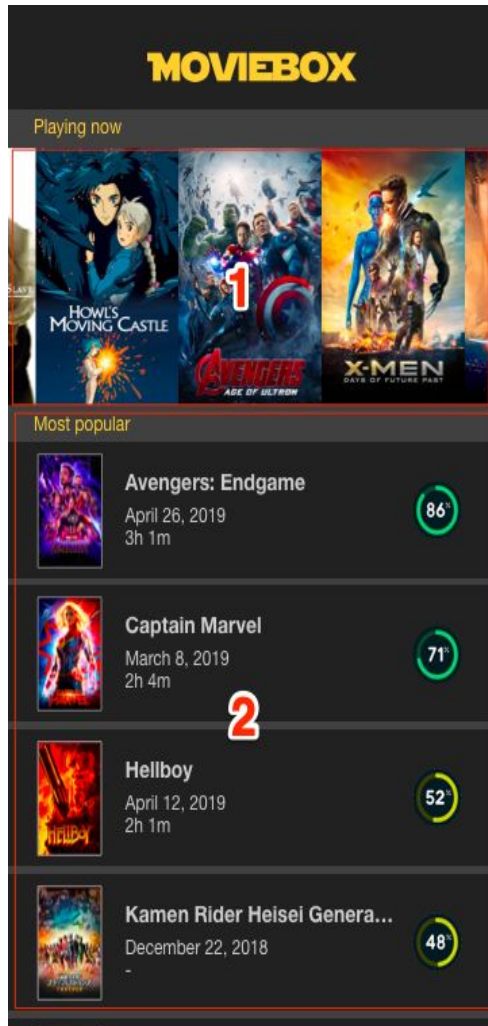
Each list item will contain the following.

1. Poster image
2. Title
3. Rating
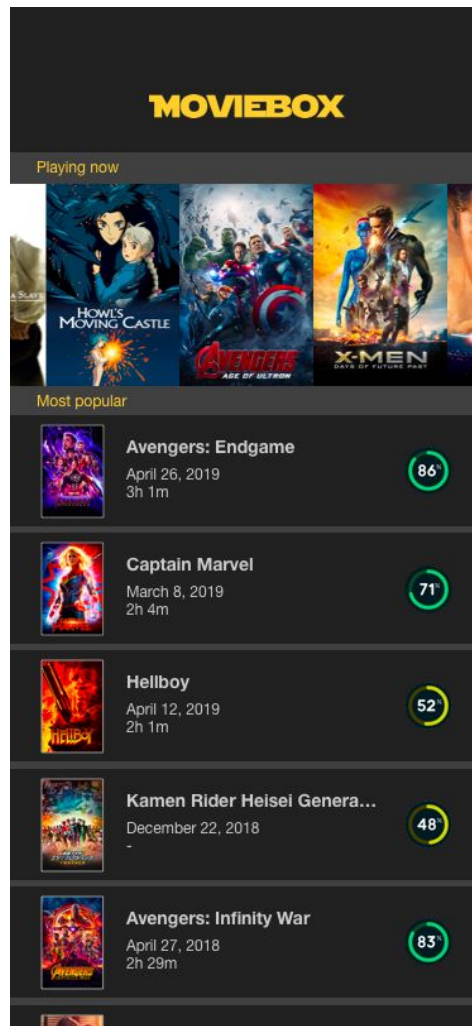4. Release date
5. Duration

Layouts to follow:

Here are links to the layouts you need to follow, you can inspect each view to get the dimensions.

Android - https://app.abstract.com/share/0c431216-05c1-45d7-8304-f9e6566276bf

iOS- https://app.abstract.com/share/8cb87be4-4250-45e0-9066-abcdf4d5dd79

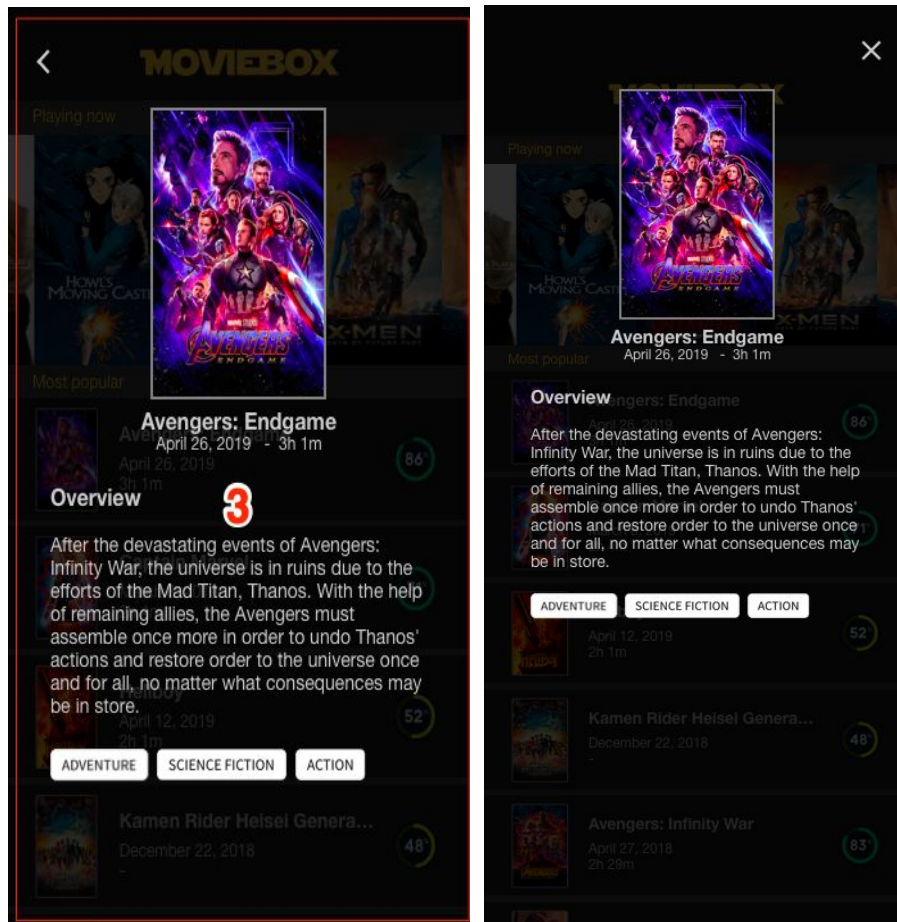**Android Listing**   **iOS Listing**

3. When a user clicks on any movie list item, it will navigate to a detailed screen, with more information about the movie.

API:

https://api.themoviedb.org/3/movie/ {MOVIE_ID}?api_key={YOUR_KEY}

Detail screen should contain following information

1. - Poster image
2. - Duration
3. - Title
4. - Overview
5. - Release date
6. - List of genres

Android Details   **iOS Details**

Image API Details can be available here:
https://developers.themoviedb.org/3/getting-started/images

Color Codes

Color codes

Primary
■ #FCD052

Background
■ #212121
■ #404040

Rating
■ #1FD07A
■ #E1E61A
■ #E6301A

Text
■ #CDCDCD

Your task is to:

1. Write network implementation to fetch and parse movie json response and render on the UI.
   - Implement paging mechanism to load a list of movies as the user scrolls down the list.
   - Cache movie images, in order to make smooth scrolling.
2. Implement custom progress view to show ratings of the movie
   - No 3rd party library should be used.
   - Animation is not necessary.
3. Provide UI/unit tests for the information screen code we provided you.
4. Implementation of the Details screen.

Additional requirements/restrictions:

1. Provide a README.md explaining your approach to solve the image caching also custom progressbar implementation and any other important decision you took or assumptions you made during the implementation.
2. The code of the assignment has to be delivered along with the git repository (.git folder). We want to see the progress of evolution. If using a cloud hosted repository, it *must* be a private repository.