

**Android Programming - Spring 2024**  
**#Project**

**Deadline 15th July**

**Movie Application**

Your project is to design a complete application to display data from the server side  
Download the collection in telegram channel

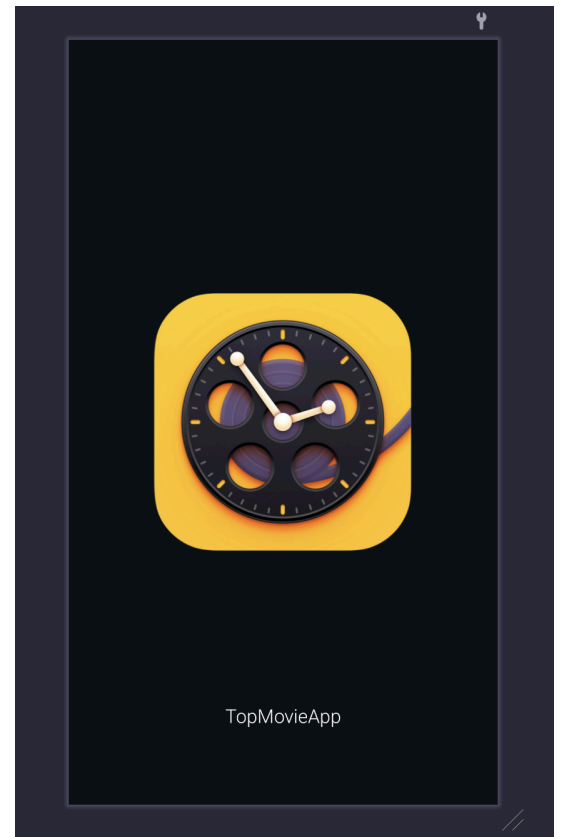
This application has 5 general pages:

1. Splash Screen (10%)
2. Register Screen (10%)
3. Home Screen (15%)
4. Detail Screen (25%)
5. Search Screen (25%)
6. Favorite Screen (15%)

- Project should have all MVVM options.
- You should remember all things you learned and provide them in code
- Uses DI libraries like Hilt is optional if you use it you got up to 15% bonus
- You should follow SOLID
- Have clean code
- Do not use comments, code should be clear it self
- If paging of movies implemented, it can have up to 5% bonus
- Your code should be reactive it means it should support all devices in all sizes
- Your code should be reactive in rotation too, it means if we rotate phone landscape it should work fine
- Theme is not force you can have your own colors (no need dark theme)
- Use fragments and fragment managers can have bonus up to 10%
- Any other cool things can have bonus

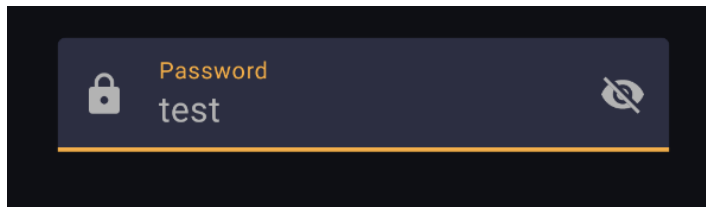
- **Splash Screen**

- ☐ Splash should shown at the first time app install
- ☐ Splash should always show
- ☐ Splash should go to Register Screen
- ☐ Splash should go to Home Screen if user logged in before



- **Register Screen**

- ☐ Register screen should get the data and handle error
- ☐ You need to get the data in correct way
- ☐ Have regex and limitation on name, student number, Email and password
- ☐ Input types should be handled as well
- ☐ User password should encrypt using **MD5** algorithm and send to server
- ☐ Any exception should report to user
- ☐ You should call the server(register request) and register the user and after that
- ☐ Registration completed go to Home Screen and other stuff
- ☐ Use your own student number any other things not accepted
- ☐ Get others tasks from the pictures and video

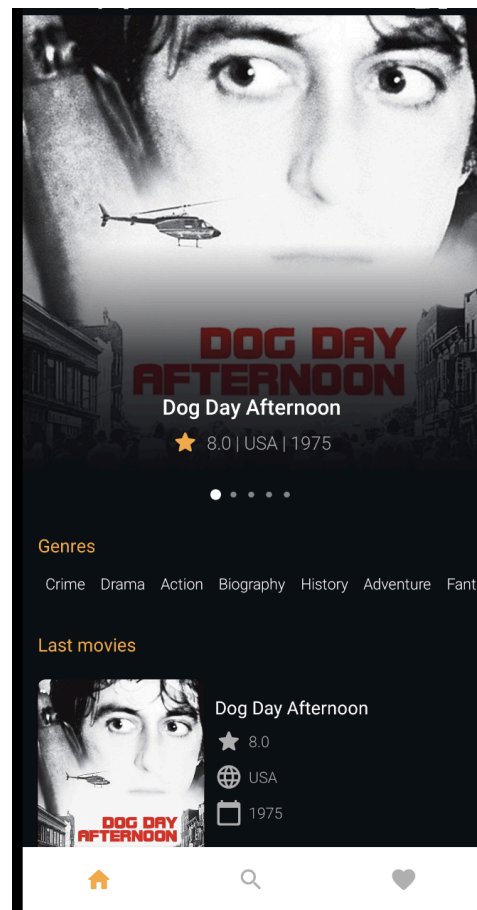
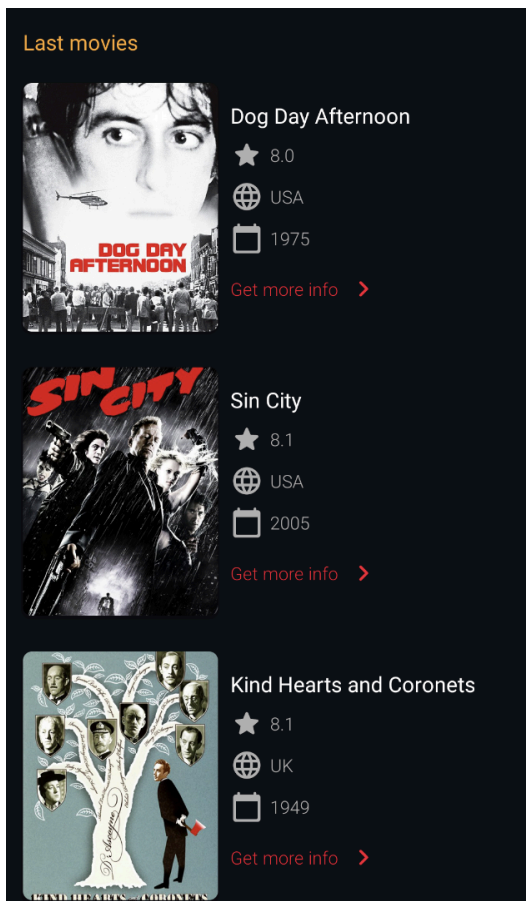
A full view of a registration form. It has a dark blue background. At the top, there is a circular profile picture placeholder. Below it, there are four input fields: 'Name' (with a person icon), 'Student Number' (with a person icon), 'Email' (with an envelope icon), and 'Password' (with a lock icon and a toggle eye icon). At the bottom, there is a large orange button labeled 'SUBMIT'.

- **Home Screen**

- ☐ Home Screen have recycler on top
- ☐ That recycler should have scroll just half of the image dragged
- ☐ Movies come from request that you should find from json collection
- ☐ List of all genres show
- ☐ List of all movies in that specific genre you get should be shown
- ☐ Any movie that clicked should open the detail page of that movie

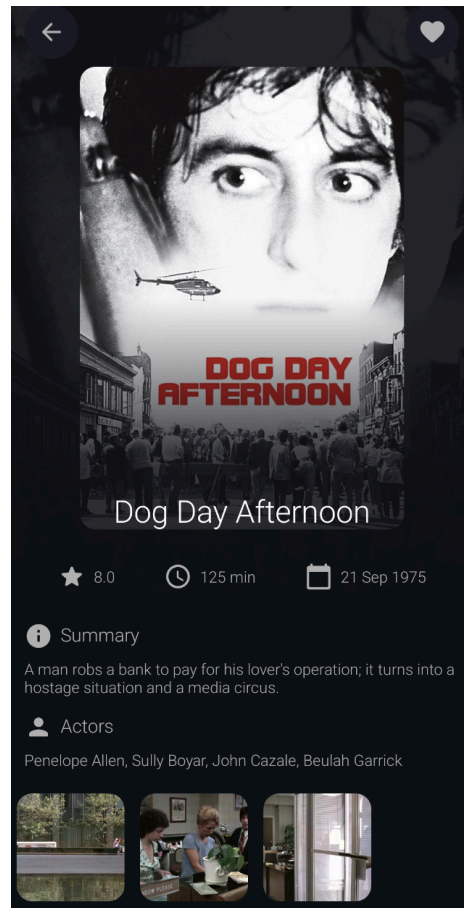
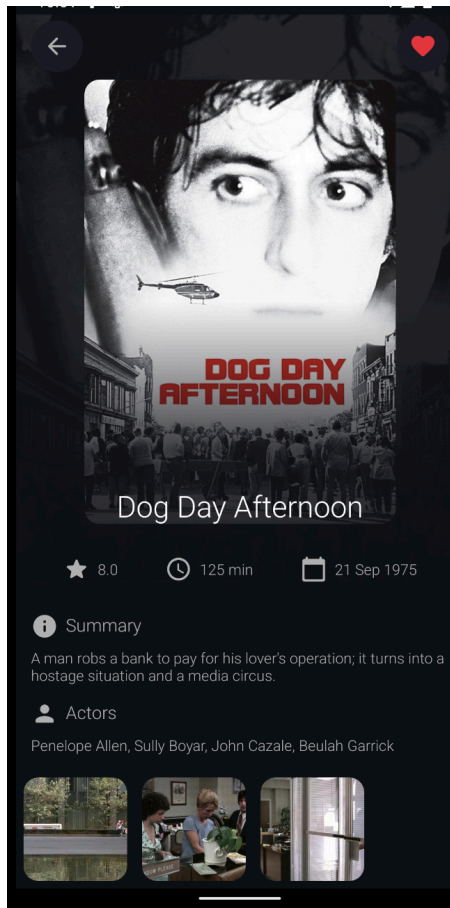
- ★ **Bonus**

- ★ Detail for each genre that clicked open the new page and show the all movies in that genres (5%)
- ★ Change top items with static time duration (5%)



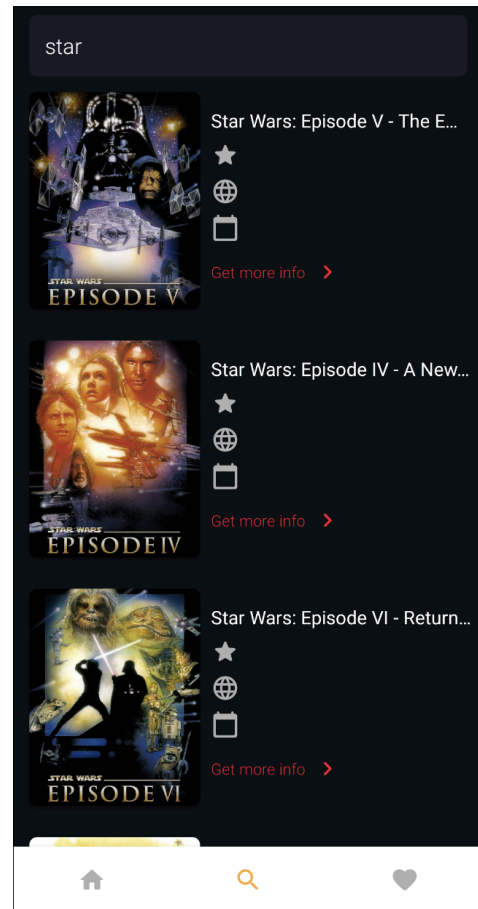
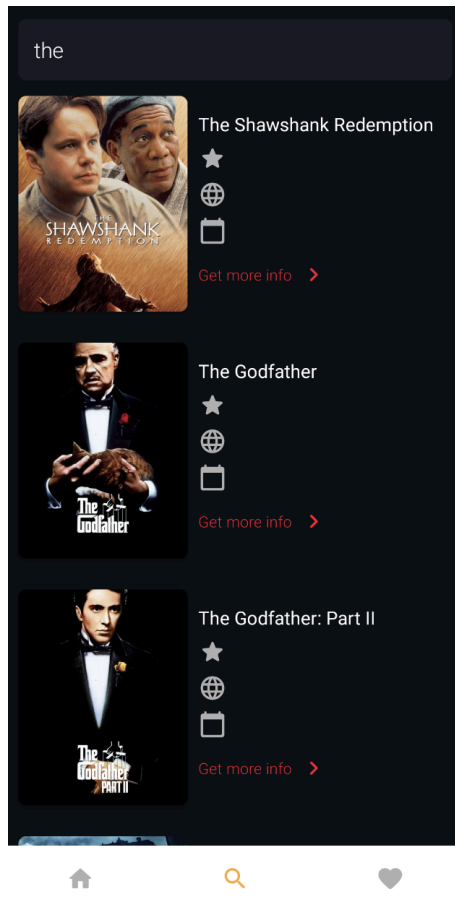
- **Detail Screen**

- ☐ Detail is view that can be scrolled
- ☐ The pictures of the movie are in horizontal recycler
- ☐ They should fade in with animations and load from server
- ☐ The favorite icon has responsibility to add the movie to favorite movies in database
- ☐ Back icon will close this page and return back to last state



- **Search Screen**

- ☐ Search should implement real time, it means we need to search from any changes that happened in search query
- ☐ Example: user type (th) you should search for that and if changes to (the) you should search again
- ☐ Any movie that clicked should open the detail page of that movie
- ☐ Images should have animations loading from server



- **Favorite Screen**

- ☐ Items that you clicked and added to database should shown here
- ☐ The last item added should be at the top
- ☐ At the first it is empty

