GitHub Username: amardeepkumar

Movie Diary

Description

If you are a movie freak and you want to save the details of movies which you like and which gave you memory with your friends or family then "Movie Diary" is for you. It helps you to browse and make a watchlist. You can search movies and watch trailers. It allows you to add movie to favourite list. You can mark your favourite movie as "Seen details" or save the details for watch later.

Intended User

This app is for all the movie lovers

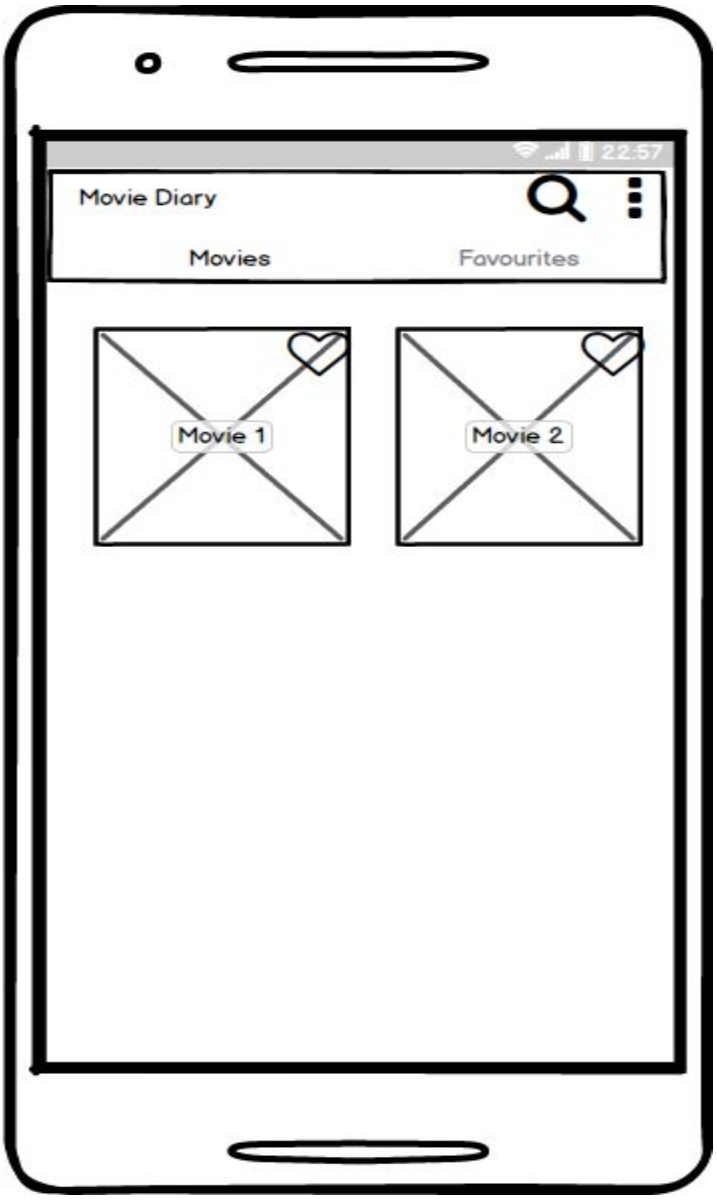
Features

- Search movie

- Sort movie list based on popularity, title, release date and rating
- Make a favourite list with personalized details like Theatre name, Location, Friends name, Date
- Check the movie details with trailers, reviews and release date.

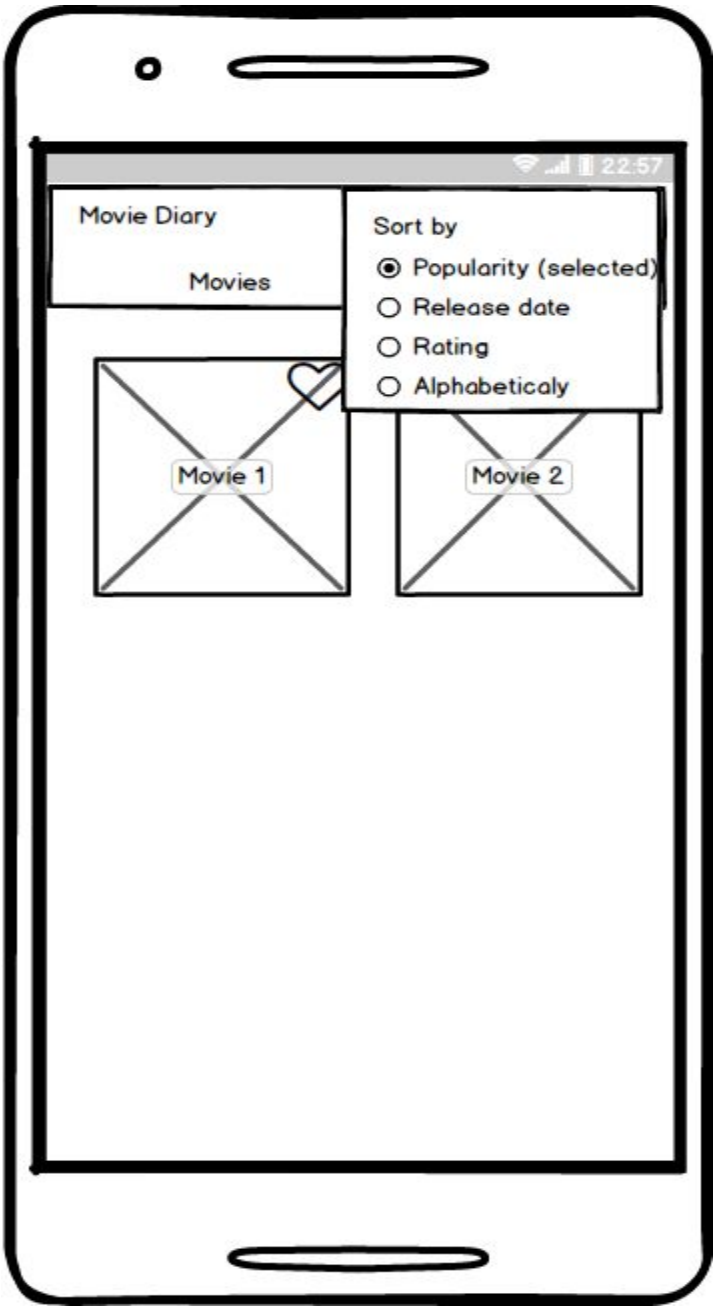
User Interface Mocks

Screen 1



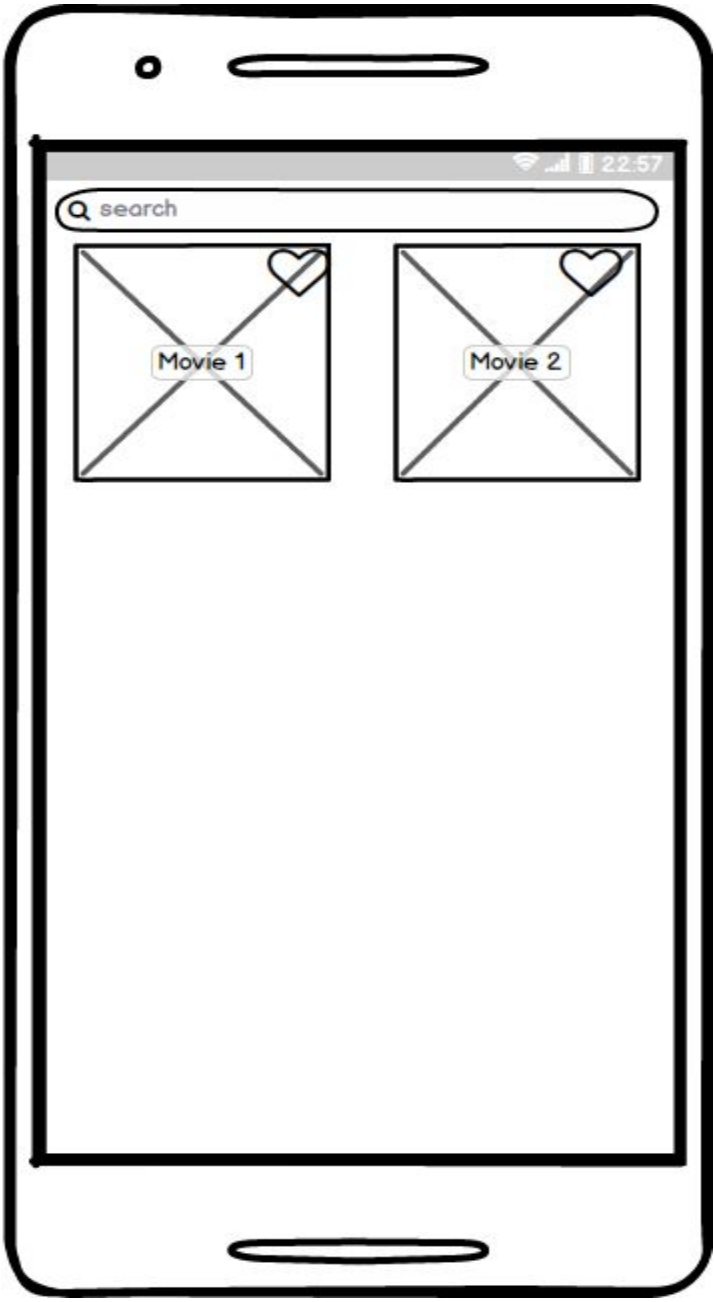
This is home page will show the movie list based on user selection in sort order.

Screen 2



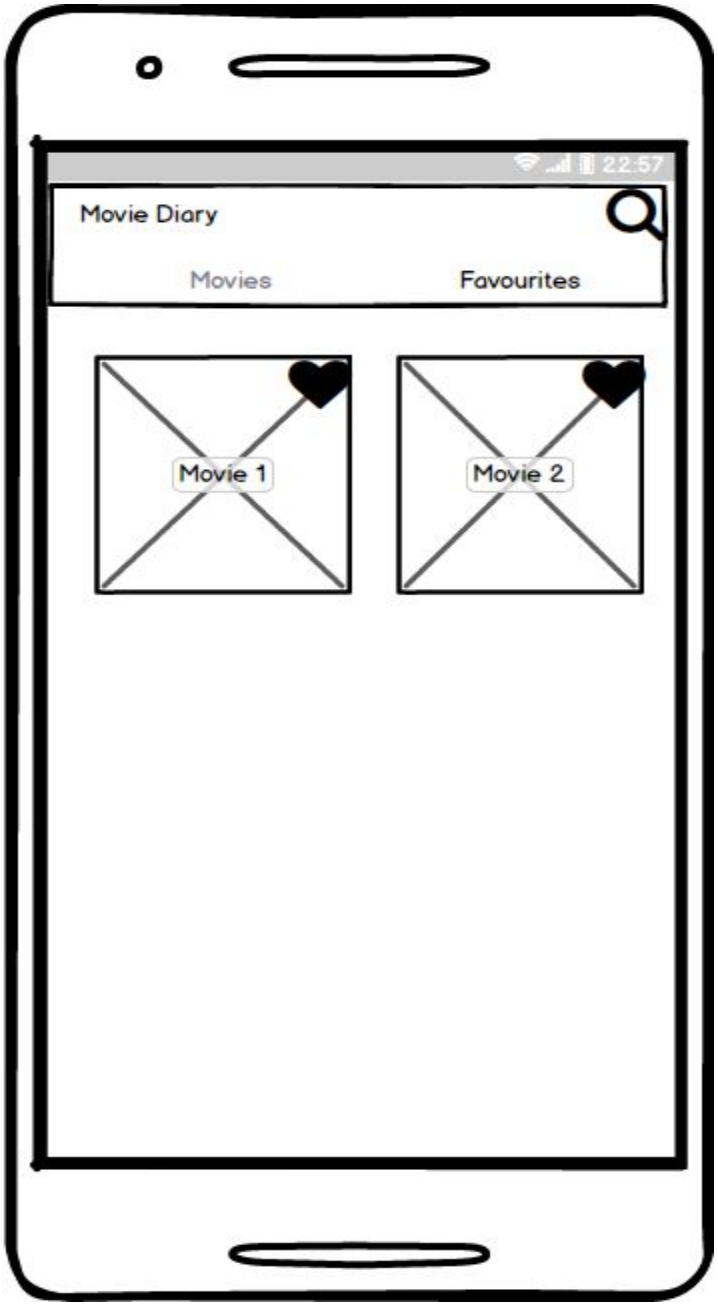
Sort options for the user

Screen 3



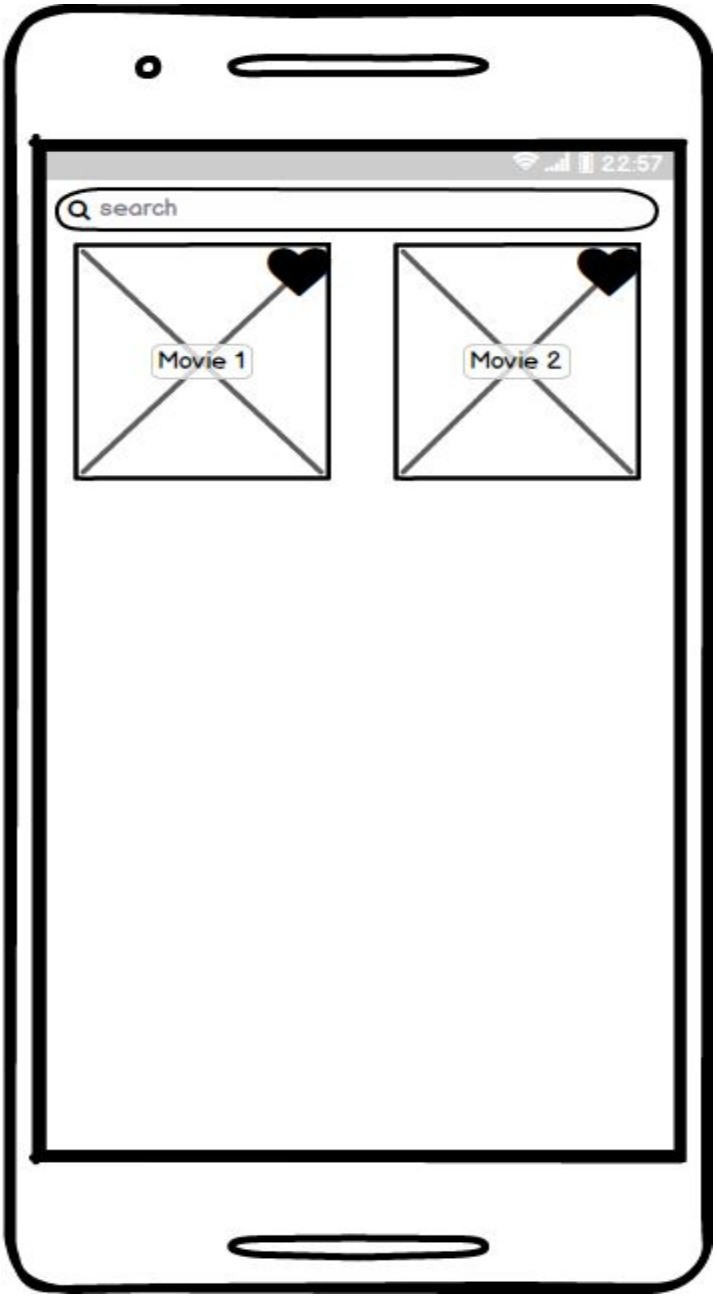
Search any movie by name.

Screen 4



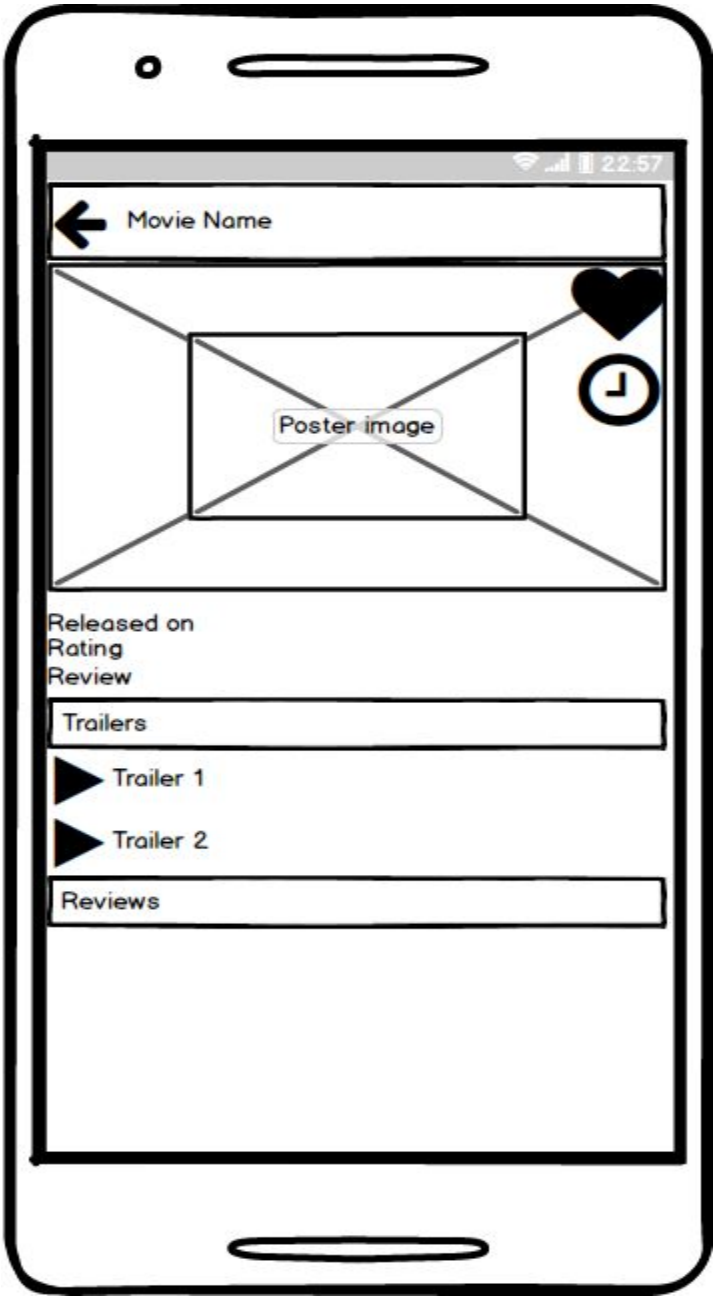
Favourite tab selected

Screen 5



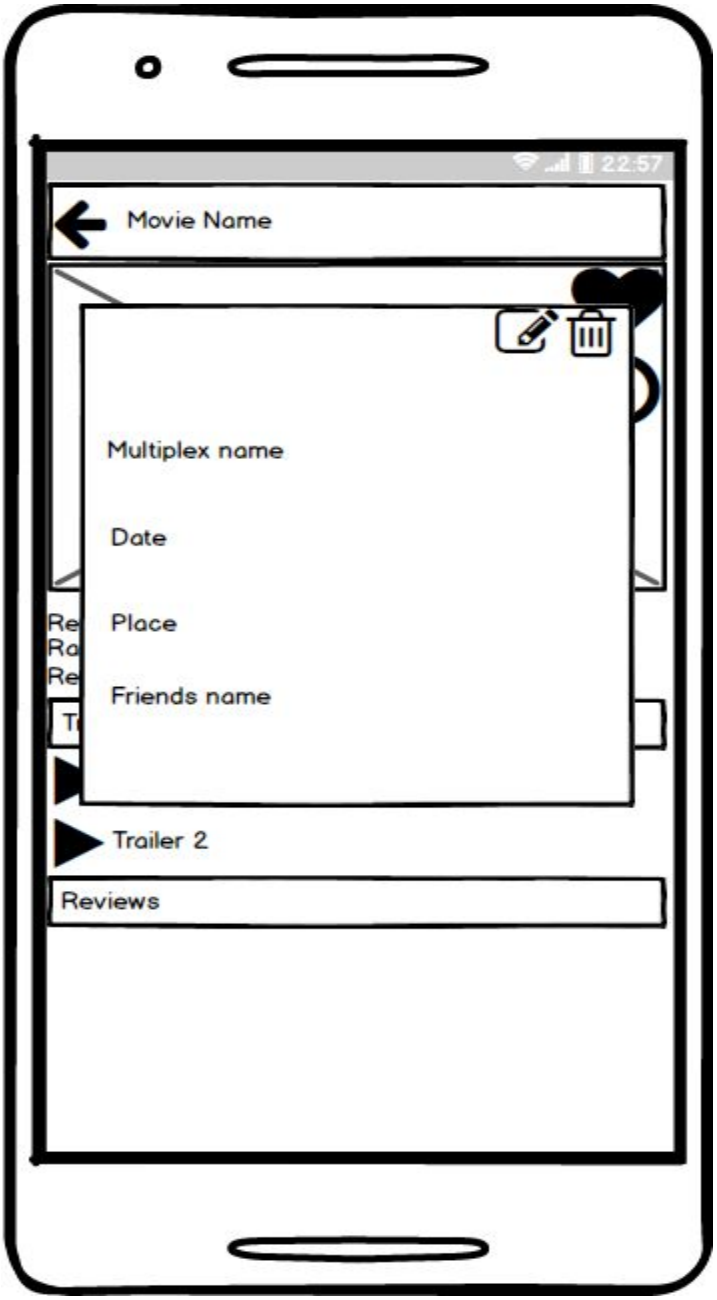
Local search for favourite movie list. User can search by name.

Screen 6



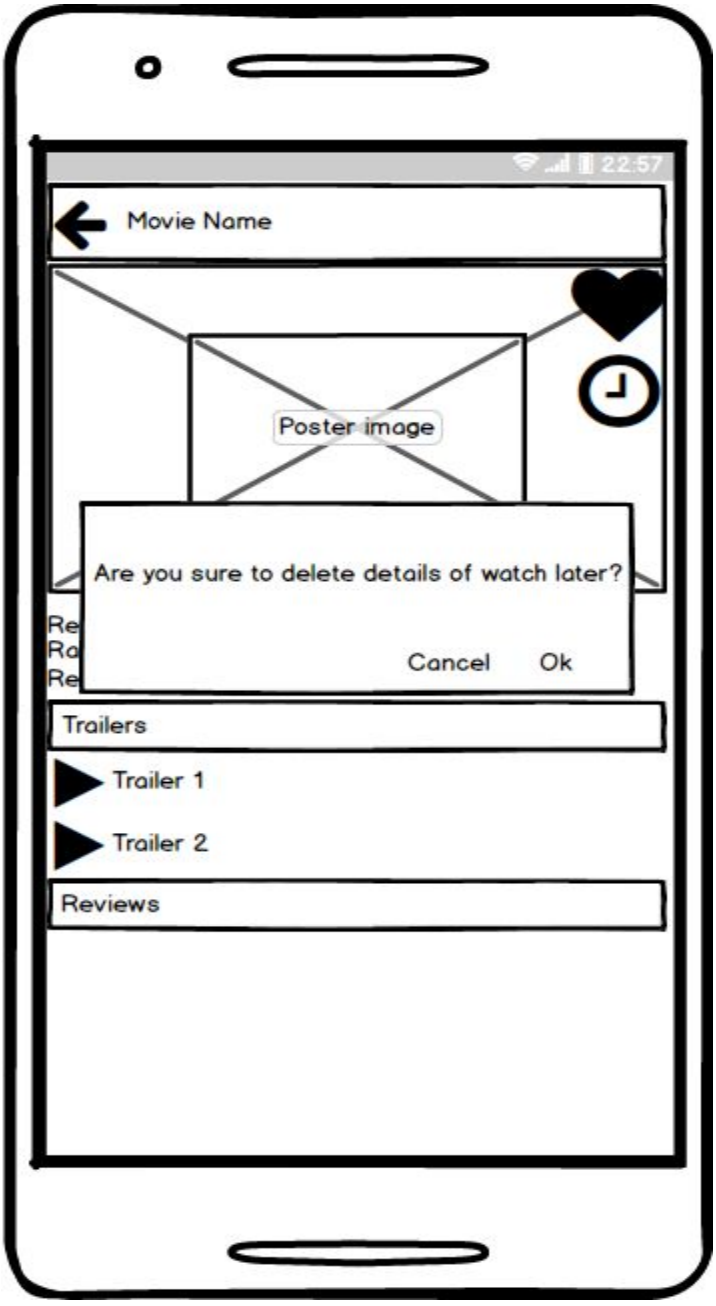
Movie details to show all the information related to movie.

Screen 7



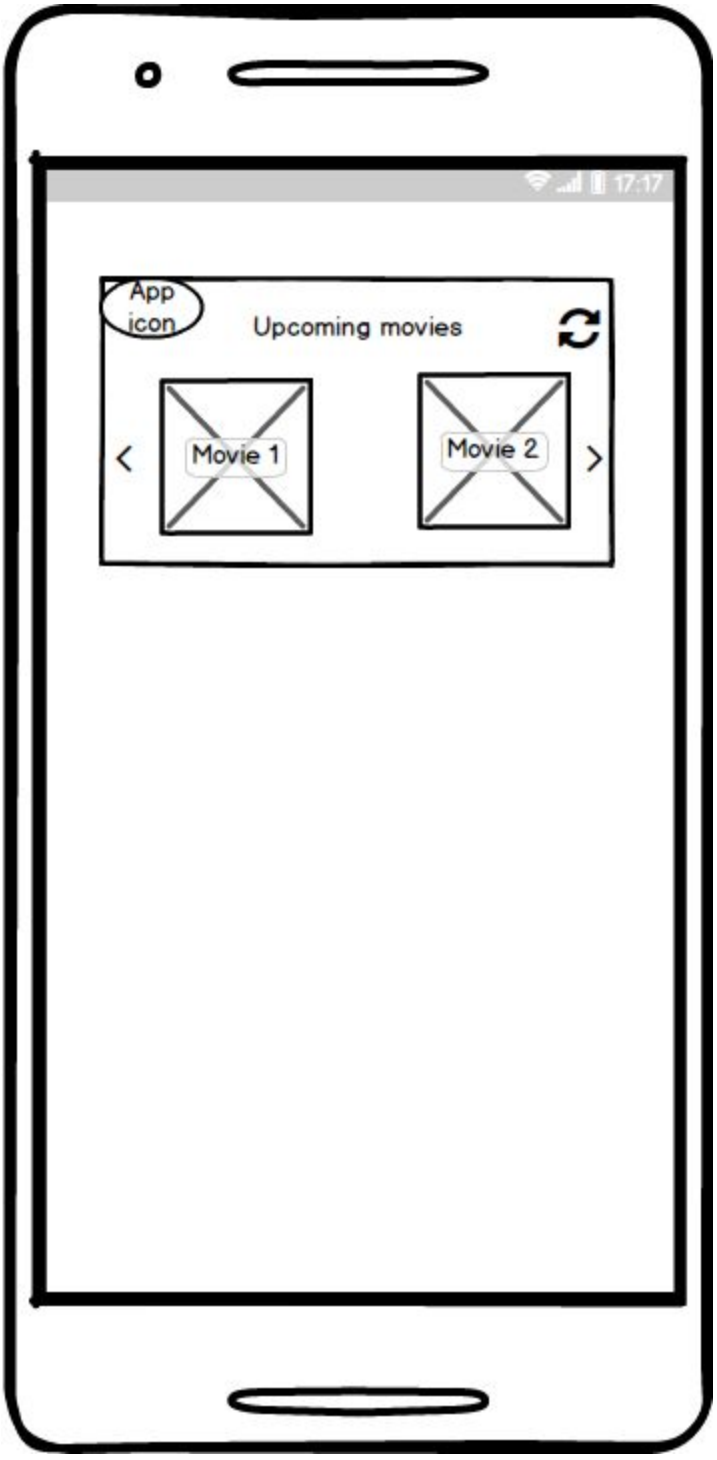
Dialog screen to show the information of time clock click action.

Screen 8

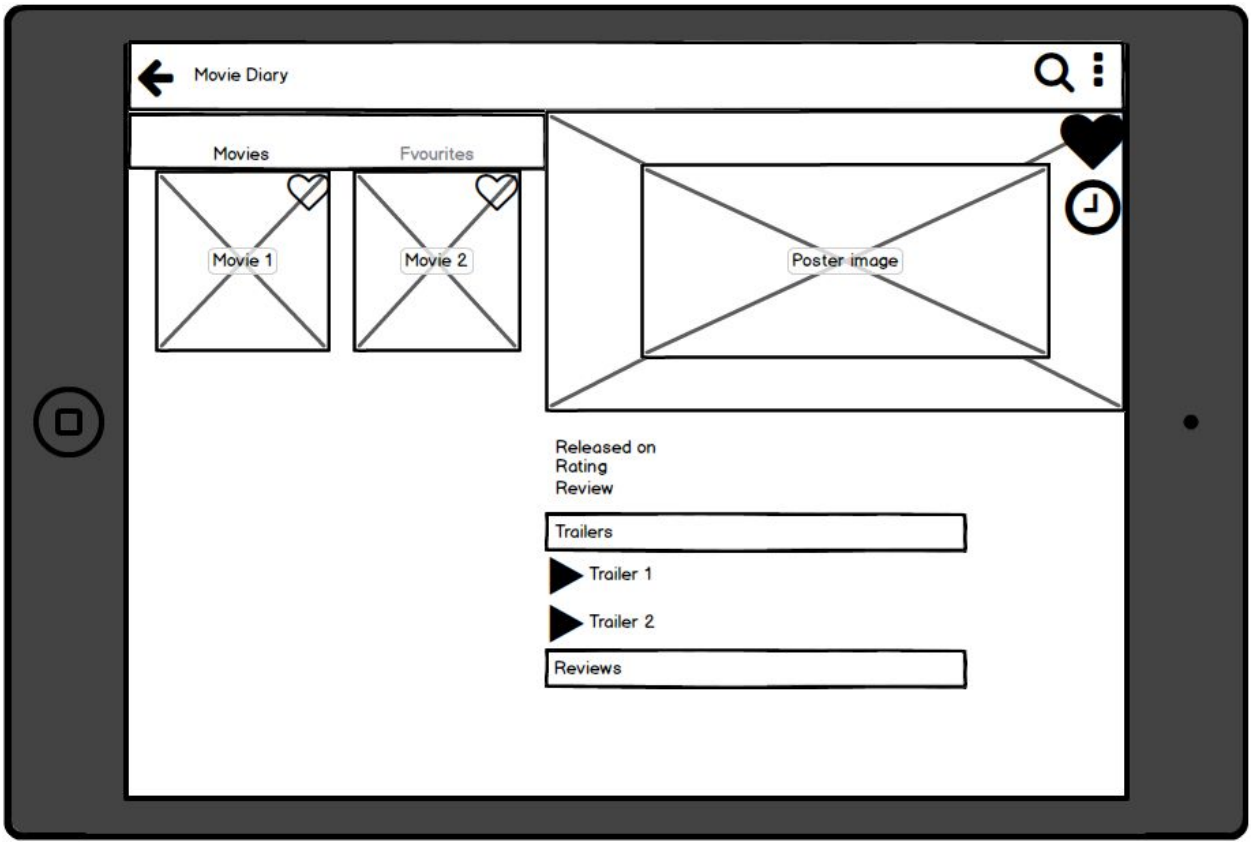


Dialog to confirm from user before deleting the details of watch history.

Widget


17:17
App icon
Upcoming movies
Movie 1
Movie 2

Tablet view



Key Considerations

How will your app handle data persistence?

App will use movie db API to show the details. Once downloaded the response will be saved in database using. View can query to this database using a content provider. User preference of sort by will be saved in shared preference. As this application is not polling the API so it will not be using Sync Adapter. Only API call, image loading and database operations needs some worker thread. I will be using Retrofit2, Glide and AsyncQueryHandler for these. If required I can use AsyncTask to load data from DB.

Describe any corner cases in the UX.

User can delete, edit or add the watch history in details screen. These data will be saved in database. Pagination will be supported in listing screen(Home screen). Offline support will be added.

Describe any libraries you'll be using and share your reasoning for including them.

Glide: For image loading
Retrofit2: For API call
Data Binding: To implement MVVM architecture
GSON library: to parse the response
Google support, appcompat and design library.

Describe how you will implement Google Play Services.

Google Analytics using GTM for tracking user action in app.
Google Add to show some ads.

Next Steps: Required Tasks

Task 1: Project Setup

- Configure libraries
- Add Base Activity, Base Fragment and Base Application
- Create MainActivity
- Add min and target sdk version

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Build UI for Tablet layout
- Build UI for Movie details
- Build UI for watch history dialog

Task 3: Setup API key

- Add API key to gradle.properties
- Use API key from build.gradle

Task 4: Create helpers

- Create a Network Manager
- Create Preference Manager
- Create Databinding Util
- Create constants, utils and common methods

Task 5: Database and other functionality

- Implement content provider and database manager
- Error handling
- Support accessibility
- Support RTL
- Widget for the app
- Implement Loaders to load UI data from database

Task 6: Testing

- Unit test each screen with internet
- Unit test each screen without internet
- Test on tablet device
- Test for all error cases and validation
- Test for orientation
- Test for accessibility
- Test RTL support
- Test for any crashes