

Name: Thasmei

Surname: Ramsahai

Module: IMAD5112

Date: 6/11/25

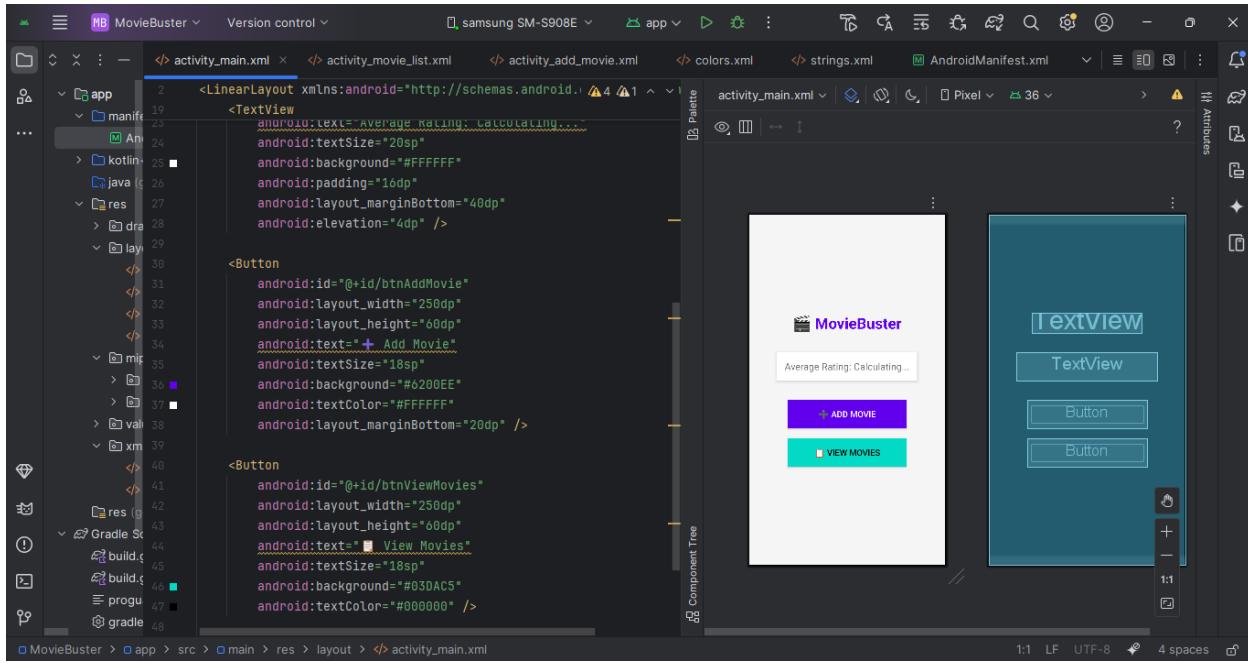
IMAD Practicum

Write-Up



MovieBuster- A Kotlin Developed App

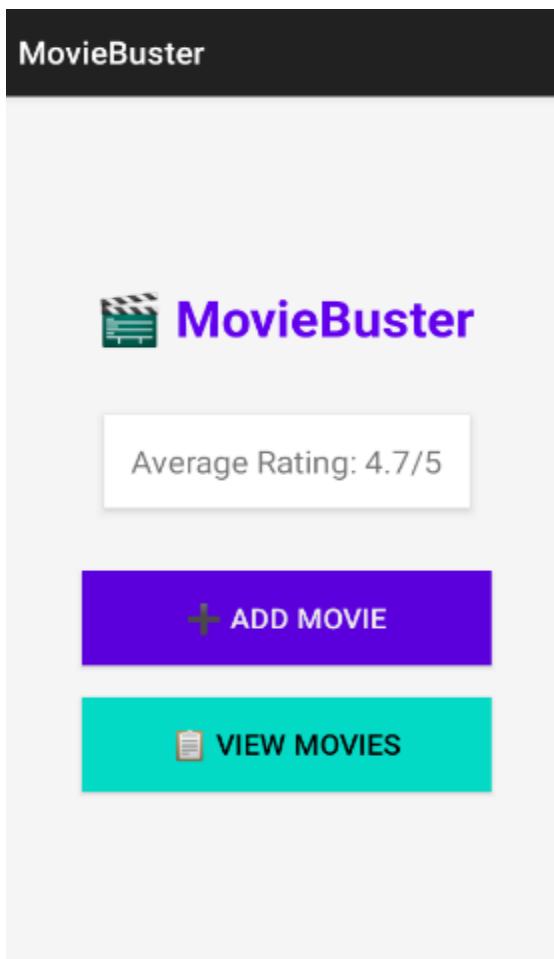
Part 1: Main Screen



The main screen serves as the main navigation hub of the MovieBuster application. It features a clean interface that displays the average rating of all movies while providing access to MovieBusters main functionalities. It uses parallel arrays to store movie data, titles, directors, ratings, and comments in a collection. When launched, the screen initializes these arrays with sample data and uses a loop to calculate the average rating by iterating through each rating value, summing them, and dividing the total count. The calculated average is then displayed, giving users immediate insight into their collection quality. Two primary action buttons enable straight forward and simple navigation: "Add Movie" transitions to a form for entering new movie details, while "View Movies" opens a detailed list of all entries made. The implementation includes error handling to prevent crashes and ensure smooth user interactions, making the main screen both functional and user-friendly.

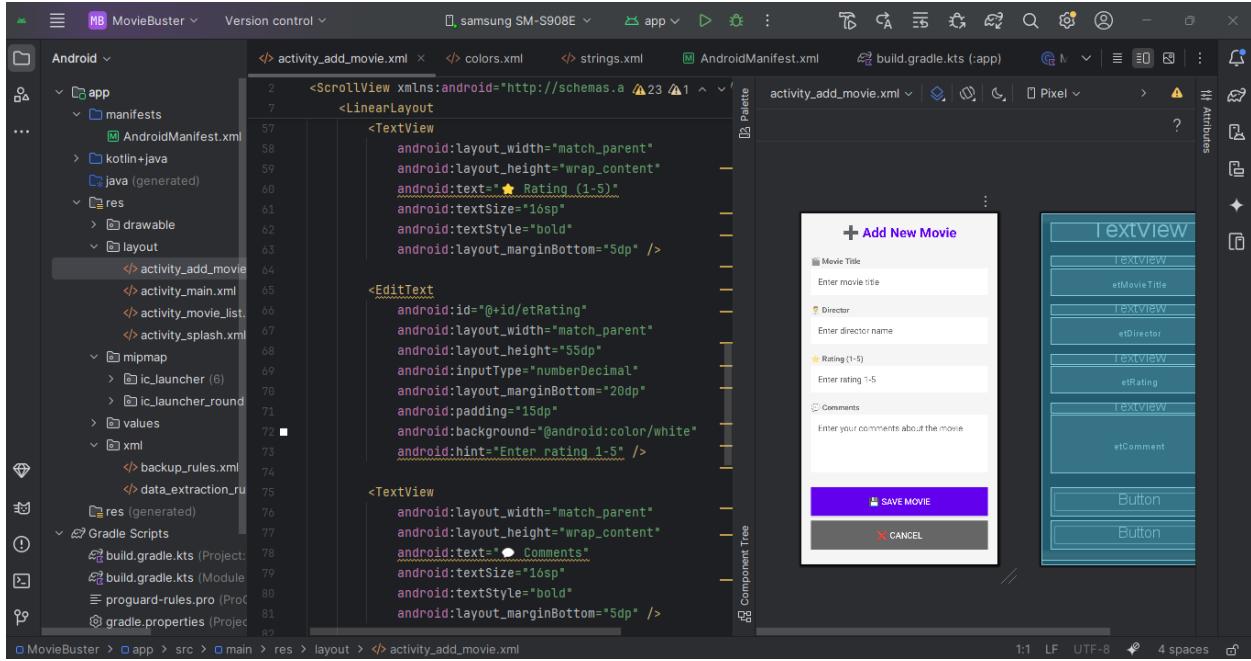


When launched, MovieBuster logo is displayed.



Main Screen, showing two buttons “Add Movie” and “View Movies”. Allowing users to rate their movies and view their collection of previously rated movies. Average Rating is also displayed based on total number of movies rated.

Part 2: Movie Rating System



When user clicks “Add movie”, they will be displayed with MovieBusters rating system, where you can enter the title, director, your personal rating and comment of a movie. The app can also handle input errors, if a user performs an incorrect action.

+ Add New Movie

🎬 Movie Title

The Dark Knight

👤 Director

Zack Snyder

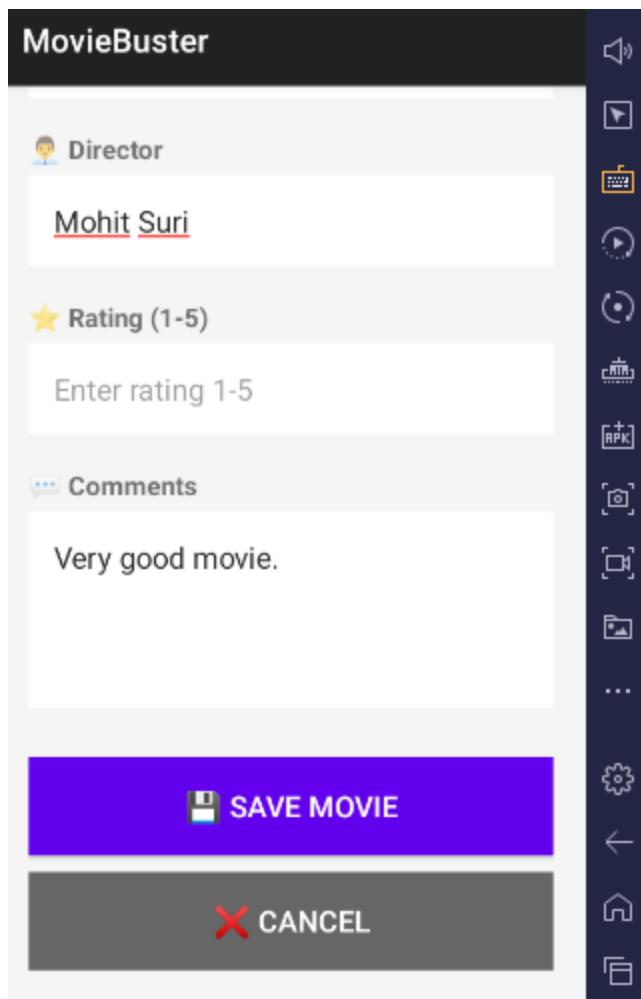
⭐ Rating (1-5)

4

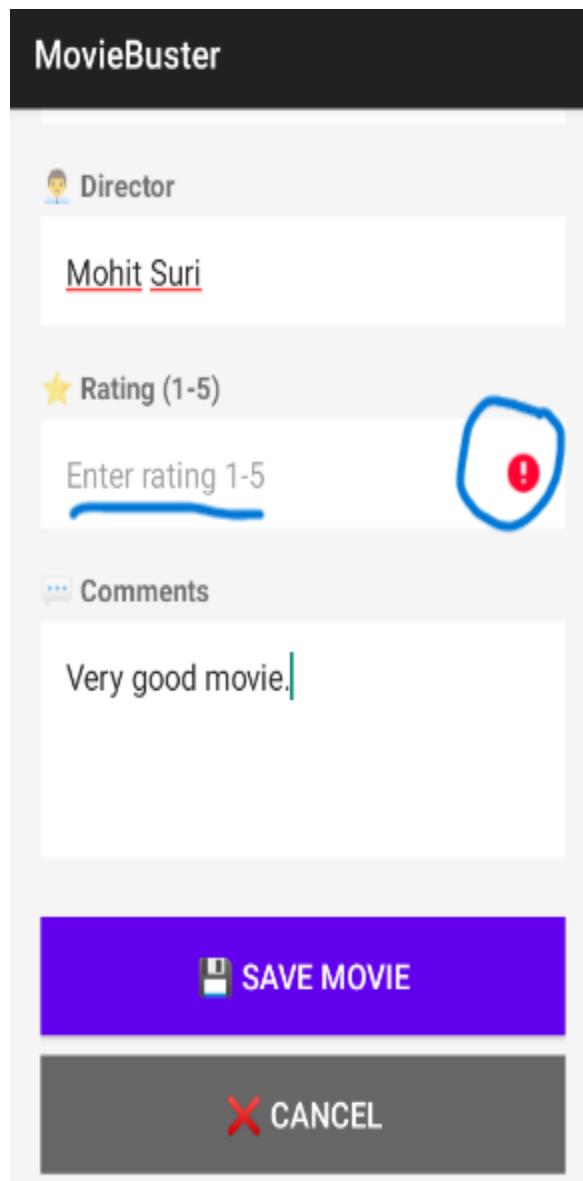
💬 Comments

Good movie, very dark compared to
the other Batman movies.

User can input their details.



User can save movie.



MovieBuster's ability to handle input errors, providing constructive feedback.

Part 3: Movie Log

The screenshot shows the Android Studio interface. On the left is the Project Structure sidebar with the 'Android' tab selected, showing the app module's structure. The main area has the code editor open for 'activity_movie_list.xml'. The XML code defines a Linear Layout with a TextView at the top containing the text 'All Movies' and a ListView below it. The preview pane on the right shows a purple header with the text 'All Movies' and a teal-colored list view below it, displaying nine items labeled Item 1 through Item 9, each with a subtitle 'SubItem 1' through 'SubItem 9'. A 'Component Tree' panel is visible on the right side of the preview.

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:background="#F5F5F5">

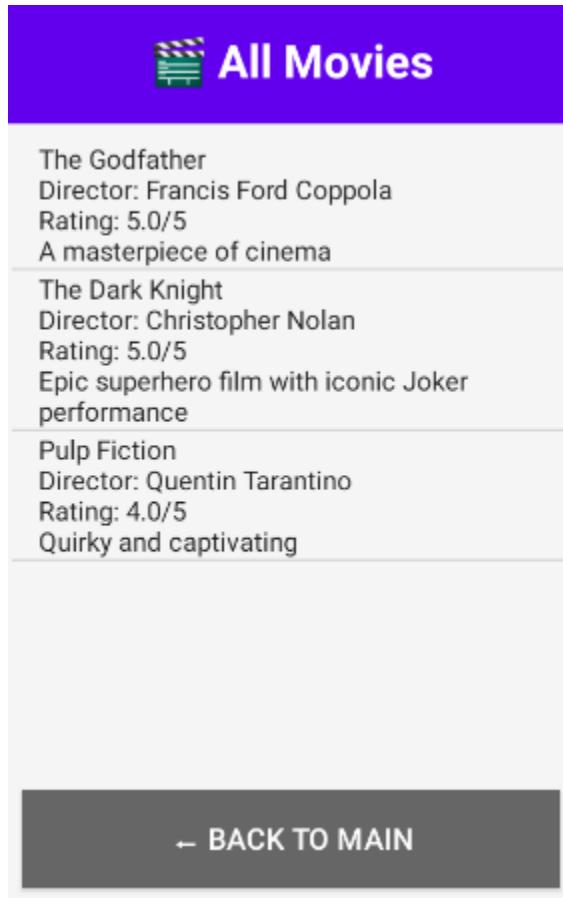
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="All Movies"
        android:textSize="28sp"
        android:textStyle="bold"
        android:gravity="center"
        android:padding="20dp"
        android:background="#6200EE"
        android:textColor="#FFFFFF" />

    <ListView
        android:id="@+id/listViewMovies"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:padding="10dp" />

    <Button
        android:id="@+id/btnBack"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:background="#6200EE"
        android:text="BACK TO MAIN" />

```

When the user presses “View Movies”, they will be displayed a log of all the movies they have rated with their comments, title, rating and director name.



Movie log of all the movies I have rated, this is unique to each user.

The MovieBuster Android application is a movie review management system developed using Kotlin within the Android Studio IDE. This mobile app uses a three-screen architecture featuring a logo (splash) screen, main activity, and detailed movie view interface. The app uses parallel arrays to efficiently store and manage movie data including titles, directors, user ratings, and descriptive comments, demonstrating a simple yet effective data structure implementation. Core functionality works with iterative loops to dynamically calculate average ratings across the movie library, while implementing seamless activity navigation through Android's system. Developed using modern Android development practices, the application was tested using the BlueStacks emulator, which provided a reliable testing environment for validating user interface responsiveness, data persistence, and navigation flows. The project showcases proficiency in Kotlin programming, Android studio and Bluestacks

References

1. W3Schools(2024) Kotlin Tutorial. Available at:
<https://www.w3schools.com/KOTLIN/index.php> (Accessed: 6 November 2025).
2. IMDb (2024) *IMDb Top 250 Movies*. Available at:
<https://www.imdb.com/chart/top/> (Accessed: 6 November 2025).