

Movies Guide App

Overview:

The Movies Guide App is a mobile application developed using Flutter and Kotlin that provides users with detailed information about movies, including descriptions, trailers, cast, release dates, runtime, streaming platforms, and user reviews. The app aims to be a one-stop solution for movie enthusiasts seeking information and planning their viewing experiences.

Objectives:

- To provide an intuitive and user-friendly interface for discovering movies.
- To integrate API services for real-time movie data (The Movie Database API).
- To support features such as movie search, trailers, and platform availability.

Scope:

- Mobile platform support.
- API integration for dynamic content.
- Display of movie metadata (title, poster, release date, cast, rating, etc.).
- Responsive UI and accessibility features.

Project Plan – Timeline:

Phase	Tasks	Timeline	Deliverables
Planning & Proposal	Define objectives, form team, initial research	Mar 1 – Mar 7	Project Proposal
Requirements & Analysis	Stakeholder analysis, use cases, requirements	Mar 8 – Mar 21	Requirements Documentation
System Design	Architecture, UI/UX wireframes, ER diagrams	Mar 22 – Apr 4	Design Documents
Implementation (Frontend)	Build UI in Flutter, integrate movie API	Apr 5 – Apr 25	Initial working version of app

Phase	Tasks	Timeline	Deliverables
Implementation (Backend)	Add watchlist/reminders, finalize functionality	Apr 26 – May 5	Functional App
Testing & QA	Manual and automated testing	May 6 – May 8	Test Report, Bug Fixes
Final Submission	Presentation, documentation, code upload	May 9	Final Report, Presentation, GitHub Repo

Stakeholder Analysis:

Stakeholder	Role	Needs/Expectations
End Users	Mobile app users (movie fans)	Easy access to accurate movie info, trailers, cast, reviews, and streaming platforms
Project Team	Developers, designer, testers	Clear requirements, stable APIs, proper coordination, and manageable workload
Instructor/Supervisor	Project evaluator and mentor	Timely progress, proper documentation, functional prototype, and clear learning outcomes
API Provider (TMDb)	External service provider	Correct use of API according to usage policies, proper crediting

User Stories & Use Cases

User Stories:

- As a user, I want to search for a movie so I can find details quickly.
- As a user, I want to **watch trailers** so I can decide if I'm interested in a movie.
- As a user, I want to **see which streaming platforms offer the movie** so I can watch it easily.
- As a user, I want to **add movies to my favorite list** to access them quickly.

Use Case:

Use Case	View Movie Details
Actors	User, Movie API
Description	User searches for a movie and views detailed info
Preconditions	User has a stable internet connection
Postconditions	Movie details are displayed
Flow	1. User enters movie name → 2. System fetches data → 3. Movie info is shown

Functional Requirements:

ID	Requirement Description
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FR1	The app allows users to search for movies using keywords
FR2	The app shall display movie information including title, poster, etc.
FR3	The app shall show trailers via embedded video player or external link
FR4	The app shall display cast, reviews, and ratings
FR5	The app shall list available streaming platforms
FR6	The app allows users to add movies to a watchlist.

Non-Functional Requirements:

Category	Requirement
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Performance	App should load within 3 seconds and API responses should be < 2 seconds
Usability	Interface should be intuitive and accessible to a wide range of users
Reliability	App should work reliably under varying network conditions
Scalability	Codebase should be modular and maintainable to support future feature additions
Security	API keys should be securely stored and data should be handled with care
Compatibility	The app must support Android (min SDK 21+) and iOS (iOS 11+) platforms

Problem Statement & Objectives:

Problem Statement:

With the increasing number of streaming platforms and movie releases, users often find it difficult to access consolidated information about films such as reviews, cast, trailers, and streaming availability. They need to switch between various websites or apps to gather this data.

Objectives:

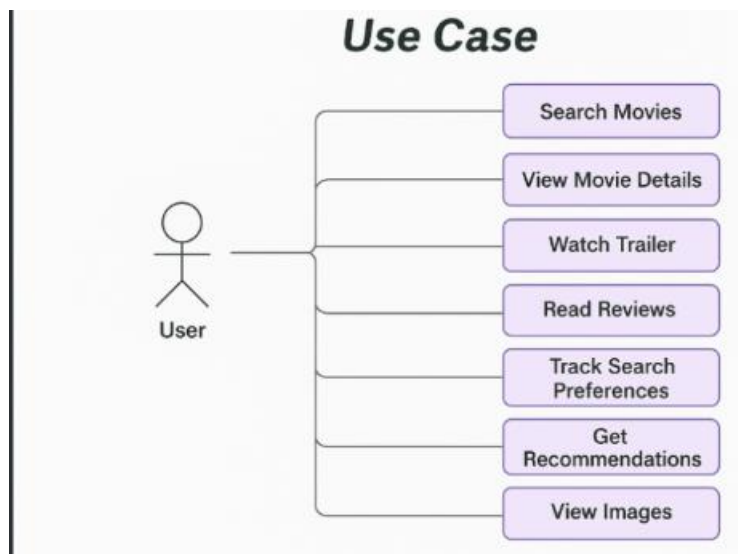
- To build a mobile app that centralizes movie-related data using API integration.
- To simplify movie discovery and decision-making for users.
- To design a clean and intuitive user interface with minimal steps to access movie details.

Use Case Diagram & Descriptions:

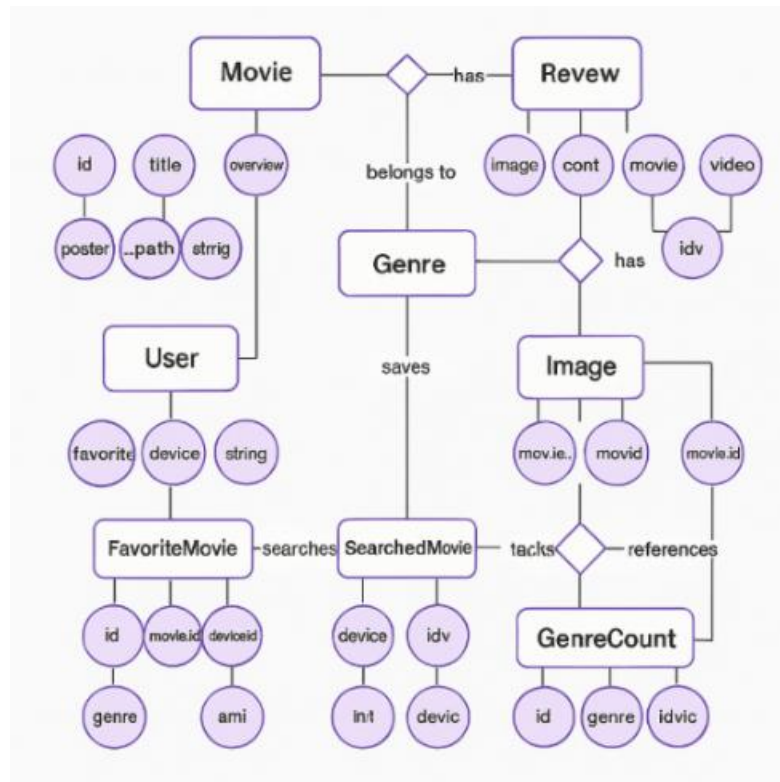
Actors:

- User
- Movie API

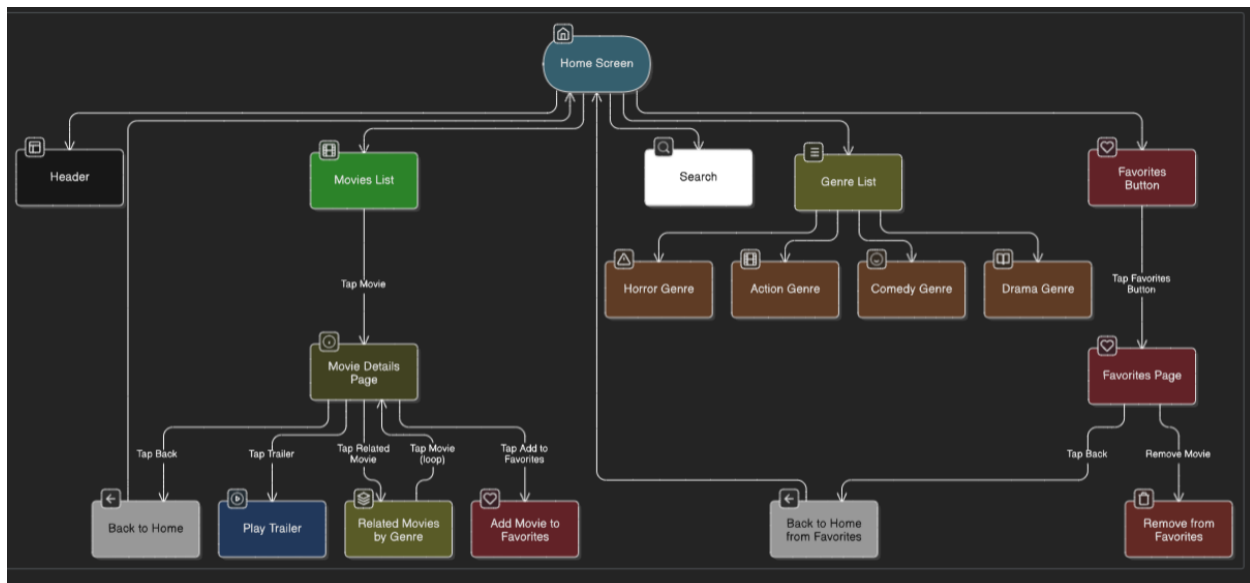
Use Cases:



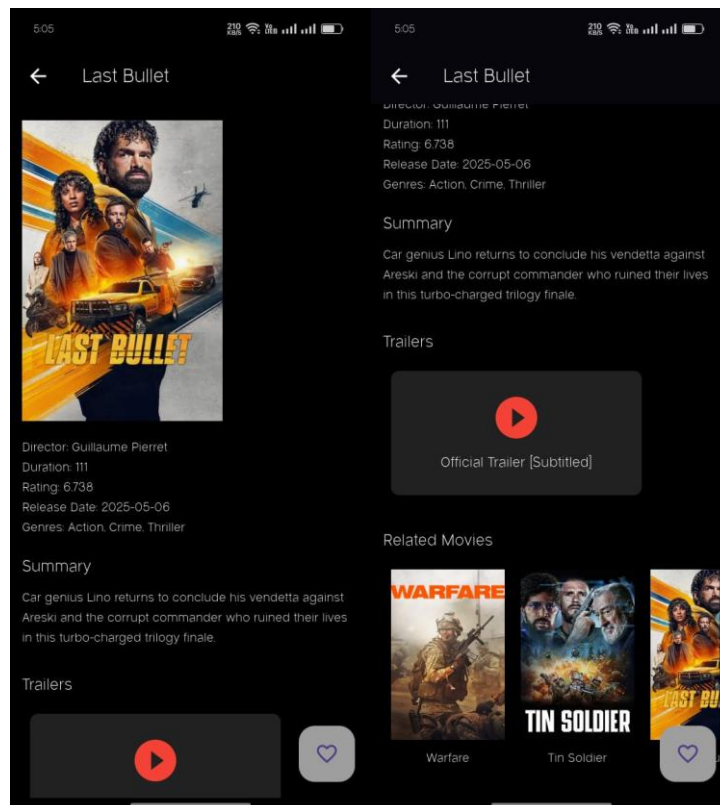
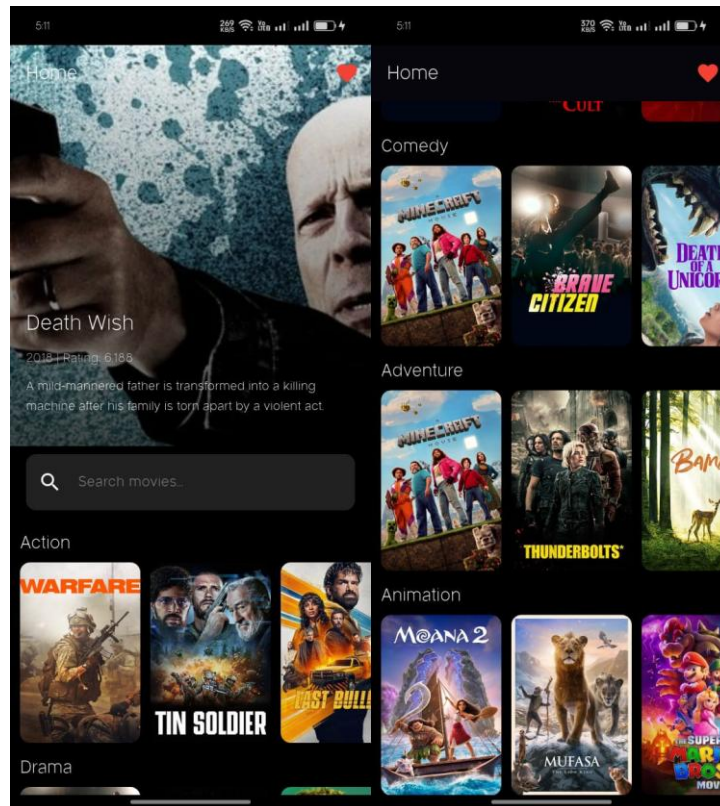
Entity-Relationship Diagram:

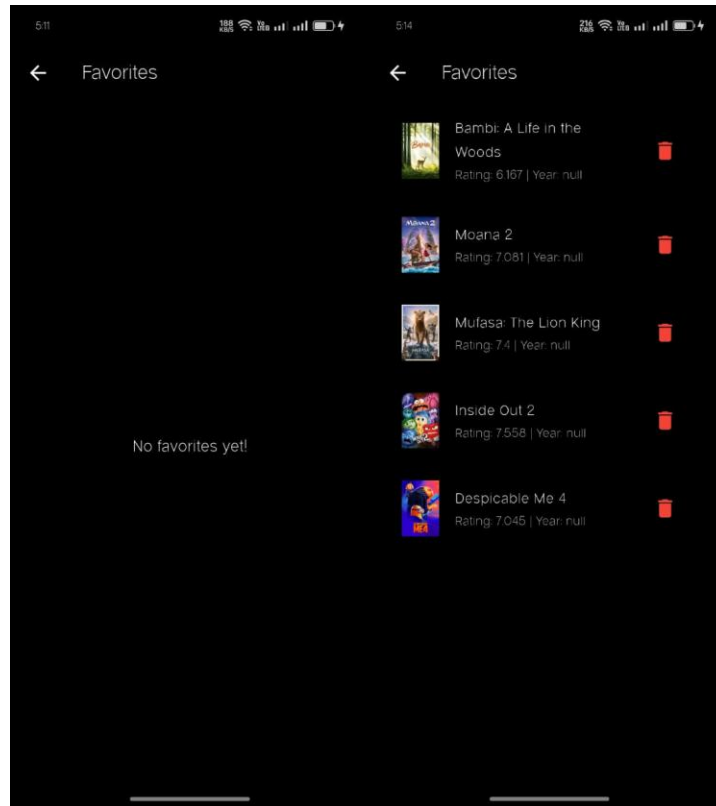


User Flow Diagram:



Flutter App Interface:





Android App Interface:

