

What is MovieApp?



A mobile app built using Kotlin for Android.

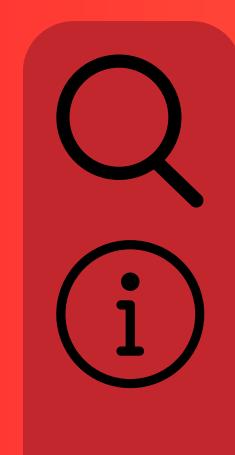


Allows users to search for movies, view details, and manage favorites.



Developed using modern Android development practices.

Key Features



Search movies by title.

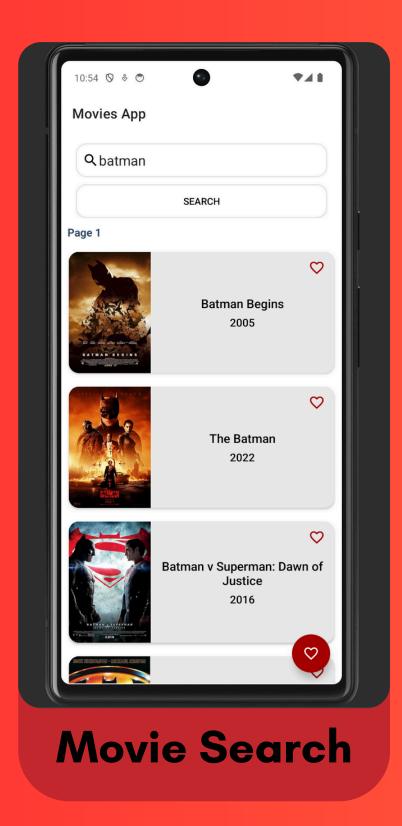
View detailed information: Title, poster, release date, rating, and overview.

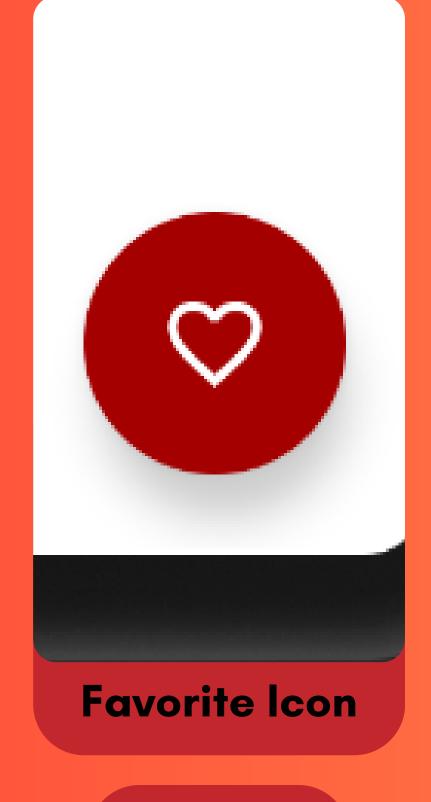
Favorite management: Add or remove movies from a favorites list.

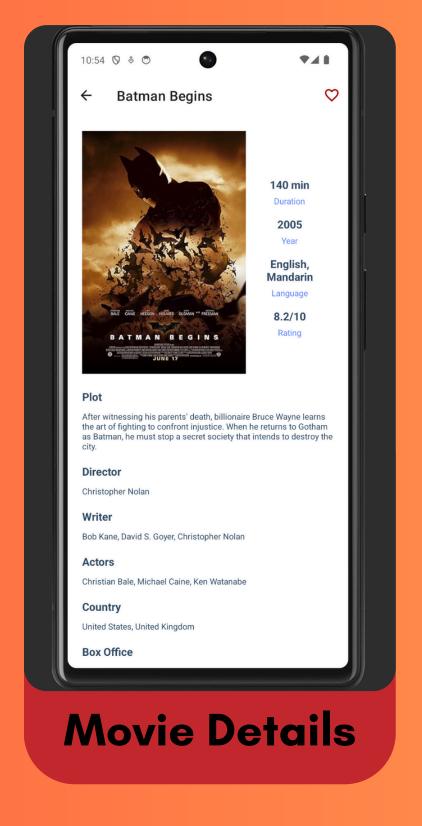
Smooth scrolling through large lists using Paging 3.



User Interface

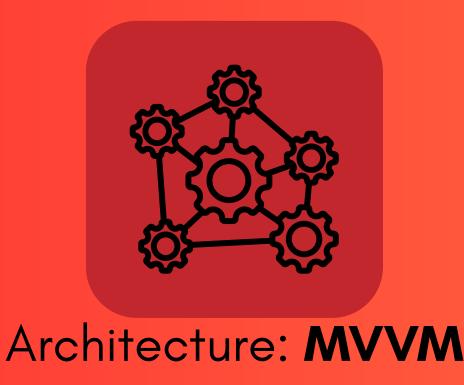






Tech Stack





JetPack Libraries:

- Retrofit: API communication
- Room: Local database
- Hilt: Dependency injection
- Navigation Component
- Data Binding
- Glide: Image loading
- Paging 3: Efficient list handling



Application Architecture



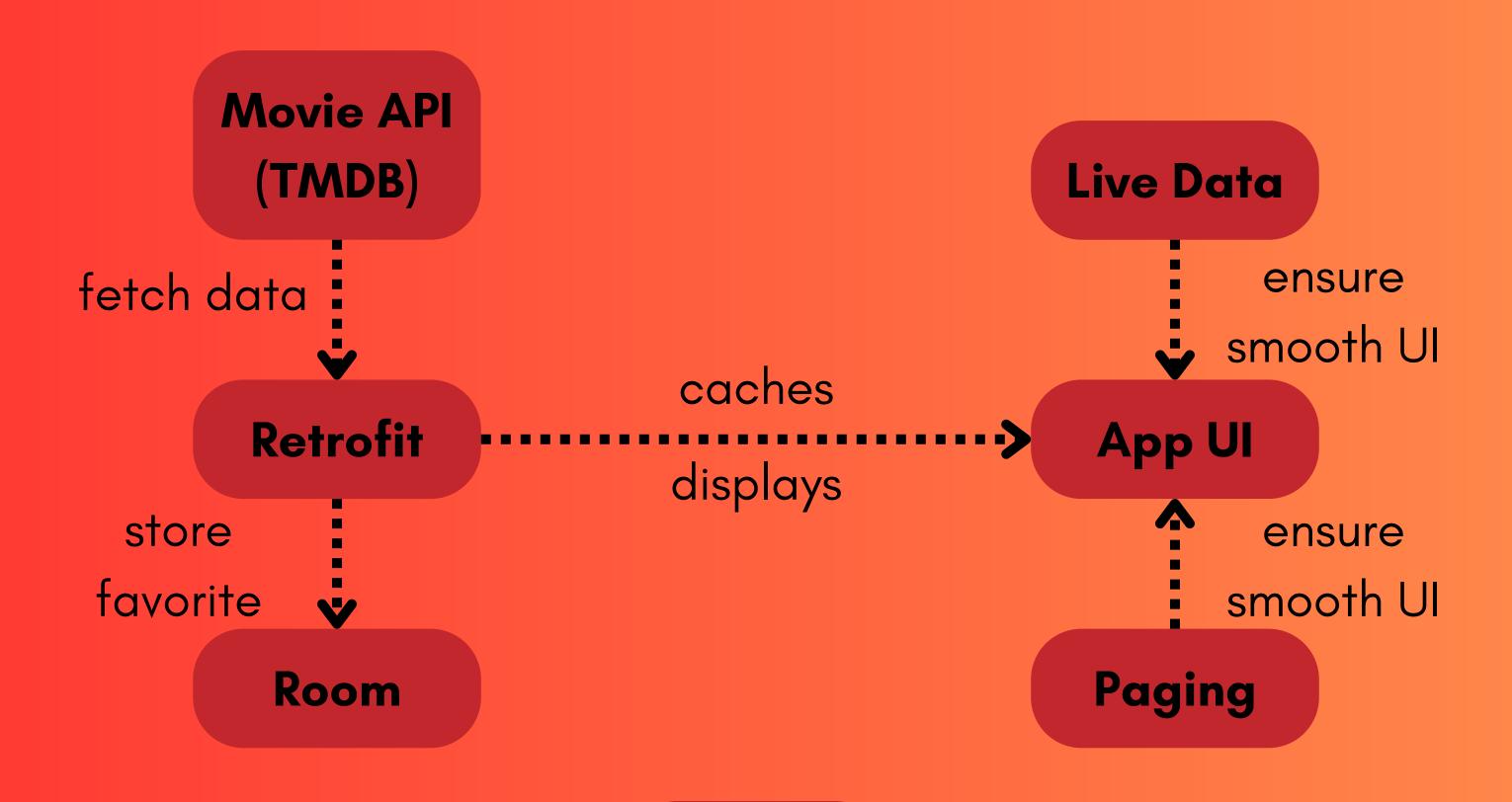
Model View Viewmodel Pattern includes:

- View: UI components (Activities/Fragments)
- ViewModel: Business logic and state management
- Model: Data sources (API + Room DB)



Benefits: Separation of concerns, testability, maintainability

Data Flow & APIS



Challenges and Solutions



Large datasets handling - Paging 3



Maintaining performance - Glide, Room



Dependency management - Hilt

Potential Improvements



Add User Authentication



Offline mode with caching



Add genre filtering and sorting option



Conclusion

Though we may not have released the full potential of the application, we managed to showcase the course knowledge in a very practical approach.

This application will fit perfectly in a bigger ecosystem as a module for media platform or streaming services.

The design of the application is supposed to be highly reusable and very practical, using modern technologies.



Thank You For Attention!!! Here are our IDs:

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