

# BDMi

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# Introduction

Our app aims to develop a social movie-tracking app that allows users to:

- Search for movies and TV shows
- View trailers and detailed information (ratings, cast, reviews, etc.)
- Create personalized watchlists
- Engage with friends by sharing movie preferences and reviews

## 01 Functional Requirements

- Movie & TV Show Search
- Personalized Watchlists
- Social Features
- API Integration
- Sensor Utilization
- Multi-Device Compatibility
- Accessibility & UI/UX Enhancements

## 02 Additional Features

Push Notifications:

- New Releases
- Watchlist Reminders

Offline mode

- Save watchlists locally

# Technologies

## 01 Database Implementation

### **Firebase Firestore:**

- NoSQL, real-time sync, cloud-based
- Ensures real-time updates across devices

## 02 External API Integration

### **TMDb API:**

- Fetches movie & TV show details
- Provides real-time trending & upcoming movie data

## 03 Sensor Integration

### **Microphone:**

- Enables voice search

### **GPS:**

- Finds nearby theaters to recommend currently showing movies

## 04 Multi-Device Support

### **Target Devices:**

- Pixel 8 series (phones)
- Pixel Tablet

# Database Implementation

Firestore (NoSQL, Cloud-Based)

- Real-time synchronization for instant updates
- Scalability for handling medium sized user bases
- Offline support

## 01 General Structure

- Users collection
- Watchlists collection
- Movies collection
- Reviews collection

## 02 CRUD Operations

- C & U: Users can add movies to watchlists and rate/review movies
- R: Fetch watchlists & reviews
- D : Remove movies from watchlists and delete reviews

# External API Integration

TMDb API:

- Comprehensive collection of movies and TV shows
- May integrate with other APIs for actor images, trailers, etc.

## 01 Usage

- Fetch movie & TV show details
- Retrieve posters & trailers
- Get trending & upcoming movies
- Discover related content
- Find watch providers

## 02 Additional Features

- Google Maps API
- Utilize GPS to fetch nearby movie theaters
- Display currently playing movies

# Multi-Device Support

## Target Devices for Testing:

- Pixel 8 Series (Smartphone) - Locked in portrait mode
- Pixel Tablet - Large-screen adaptation with multi-pane UI

## Responsive UI:

- Uses adaptive layouts to optimize content display
- Ensures seamless experience across different screen sizes

## Sensor Integration

- Microphone: Enables voice search for movies and TV shows
- GPS: Finds nearby theaters and displays currently playing movies

## UI/UX Design

- Dynamic theming with light & dark mode support
- Smooth animations & transitions for an engaging experience

# Home

BDM:

Lazy Row? Images?  
Actors?

Google Auth

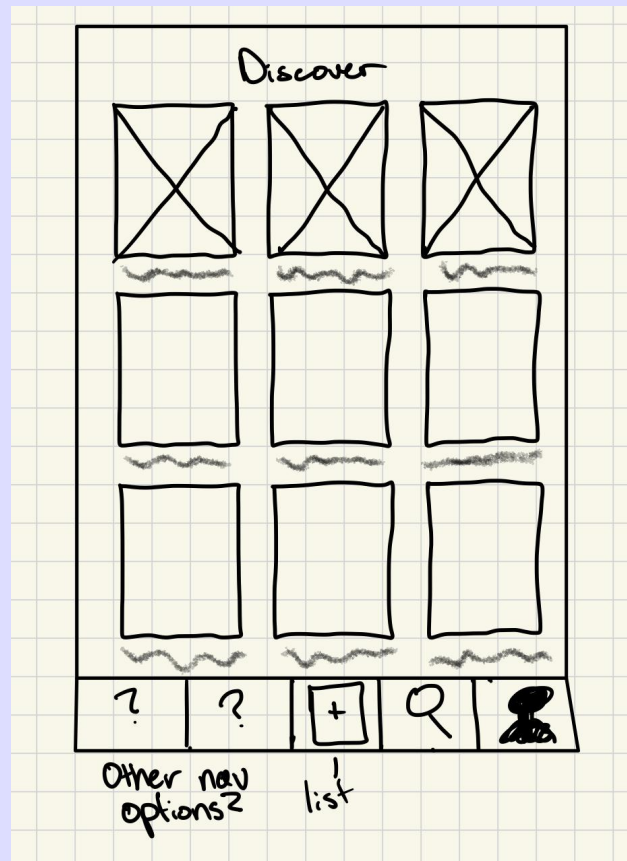
Login

Create Account

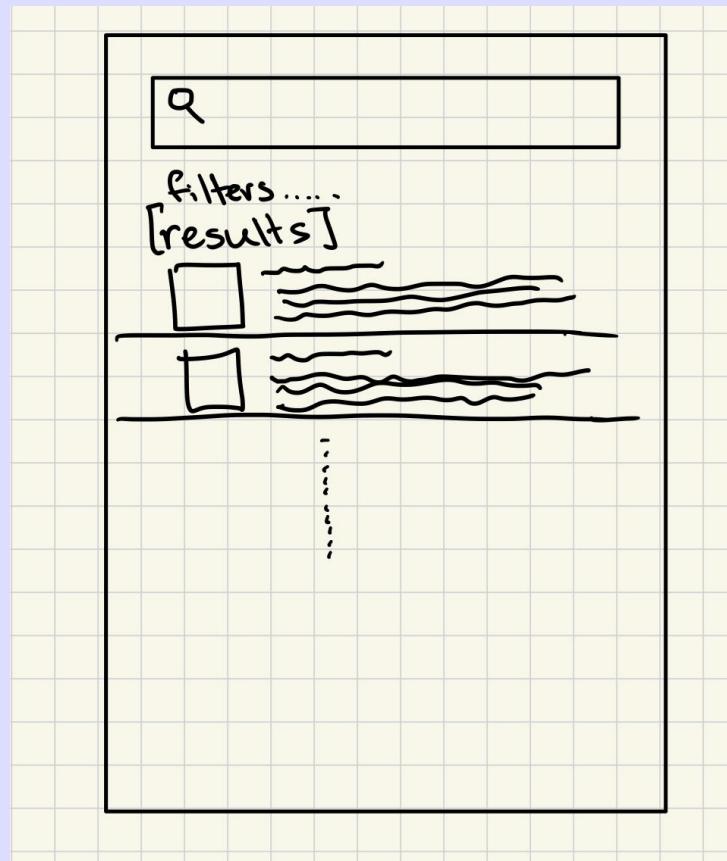




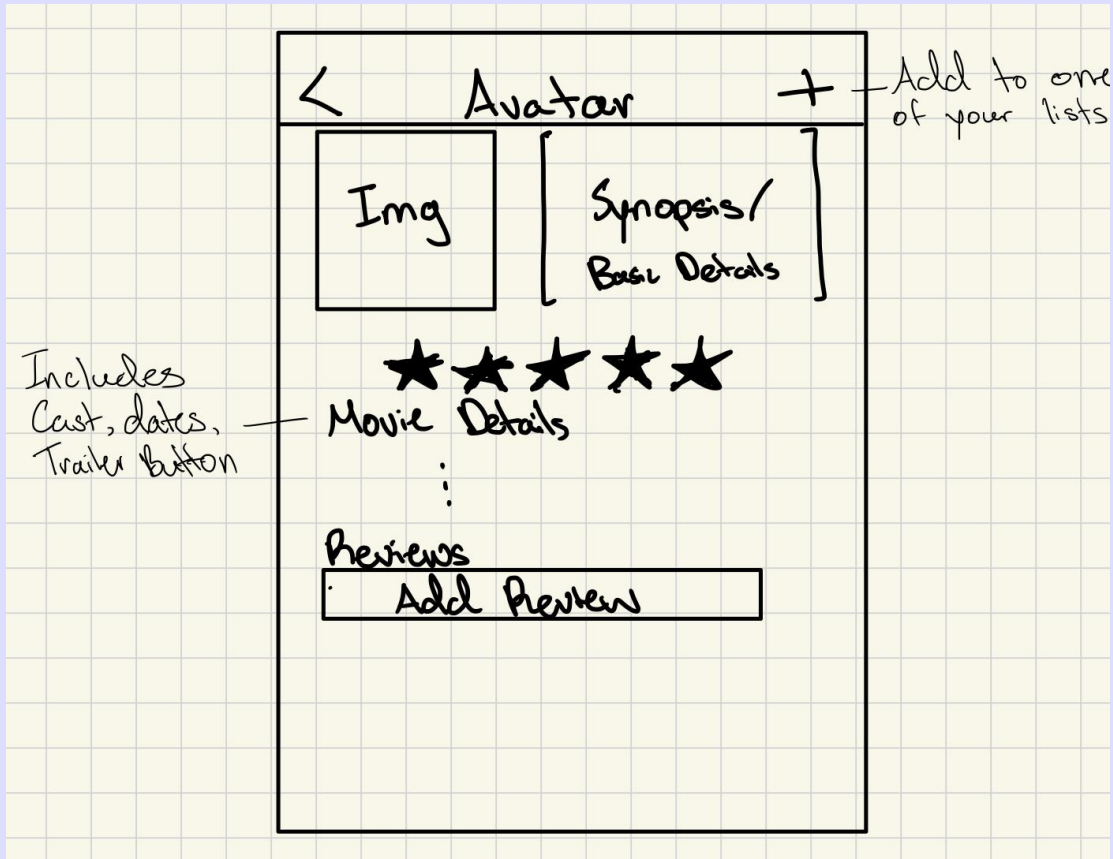
## Discover



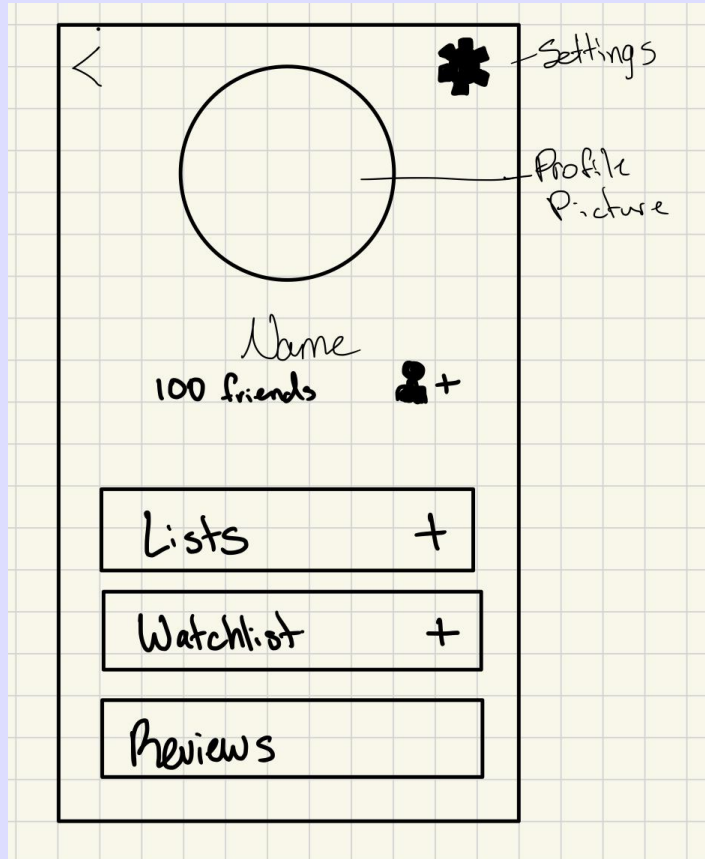
## Search



# Detail Movie/TV Show



## User Profile



## Friends List

