

# **Copilot started it all, but who is winning now?**

**AI code assistance comparison**

**Jan Stepien**

# Are AI tools any good?

# **Biased content alert**

I will be speaking only truth,  
but my truth,  
not objective truth,  
but my perception of truth

# **Retrospection time**

# How it started for me



# How it started for me

- June, 2021 - announced
- March, 2022 - announced for VSCode
- **May, 2022 - I joined 'technical preview'**
- June 2022 - generally available



# How it started for me

- June 2021 - announced
- March 2022 - announced for VSCode
- **May 2022** - I joined Copilot 'technical preview'
- June 2022 - generally available
- ...
- **December 2024 - Started using Cursor AI**



**Who am I?**

# Chapter I

# The autocomplete

# The autocomplete

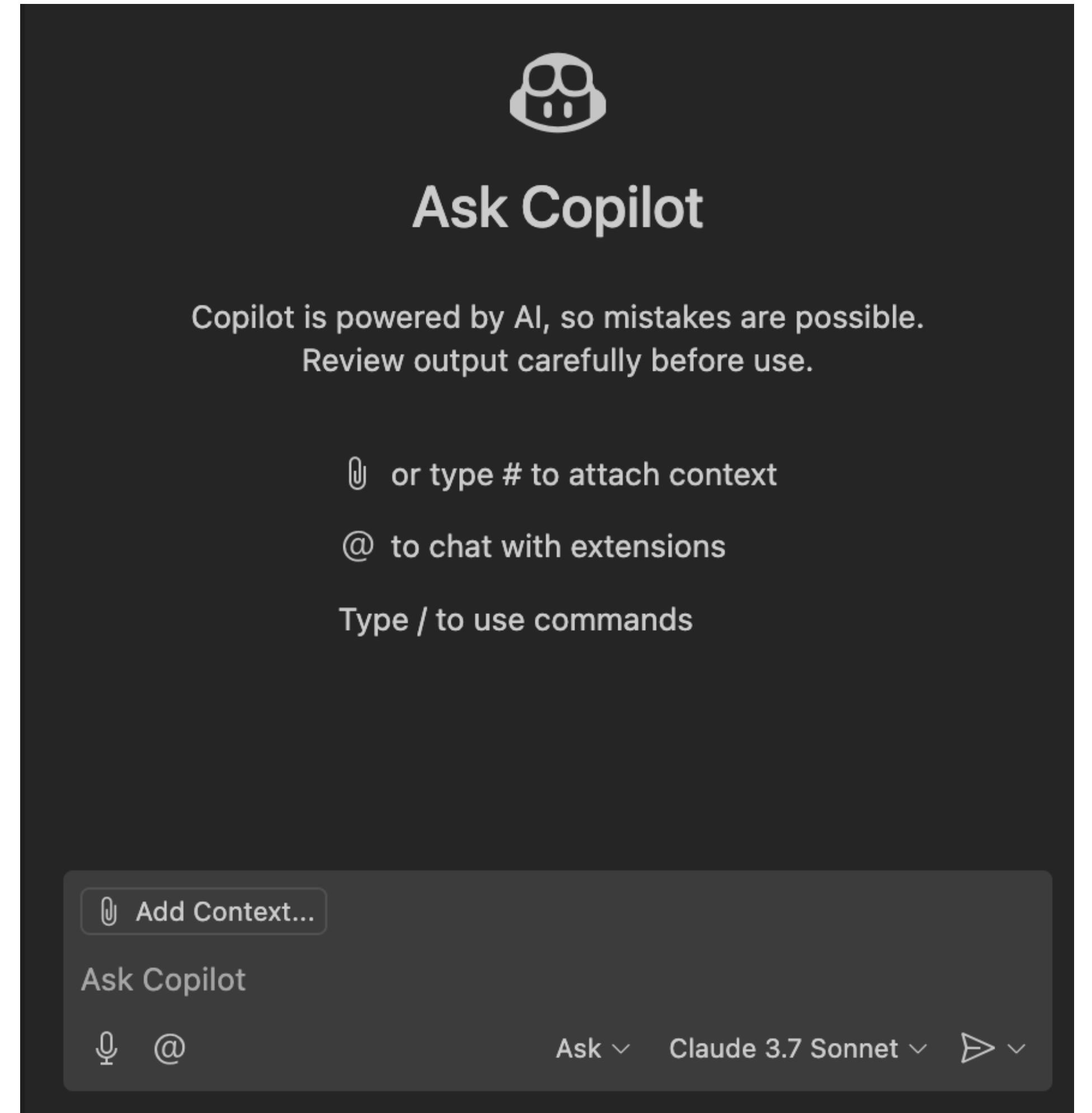
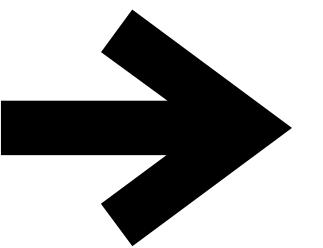
```
mainAxisAlignment: MainAxisAlignment.center,  
children: <Widget>[  
  const Text('You have pushed the button this many times:'),  
  Text(  
    '$_counter',  
    style: Theme.of(context).textTheme.headlineMedium,  
  ), // Text  
  FilledButton(onPressed: onPressed, child: child)  
, // <Widget>[]  
, // Column
```

```
  ), // Text  
  FilledButton(  
    onPressed: _incrementCounter,  
    child: const Text('Increment Counter'),  
  ),
```

# Chapter II

# The asker

# The asker



A screenshot of the Ask Copilot interface. At the top, there's a user icon and the text "Ask Copilot". Below that, a message states: "Copilot is powered by AI, so mistakes are possible. Review output carefully before use." There are three bullet points with icons: a clipboard icon for "or type # to attach context", an '@' symbol for "to chat with extensions", and a '/' symbol for "Type / to use commands". At the bottom, there's a text input field with a placeholder "Add Context...", a button labeled "Ask Copilot", and a footer bar with icons for microphone, '@', "Ask", "Claude 3.7 Sonnet", and a right-pointing arrow.

Ask Copilot

Copilot is powered by AI, so mistakes are possible.  
Review output carefully before use.

- or type # to attach context
- @ to chat with extensions
- Type / to use commands

Add Context...

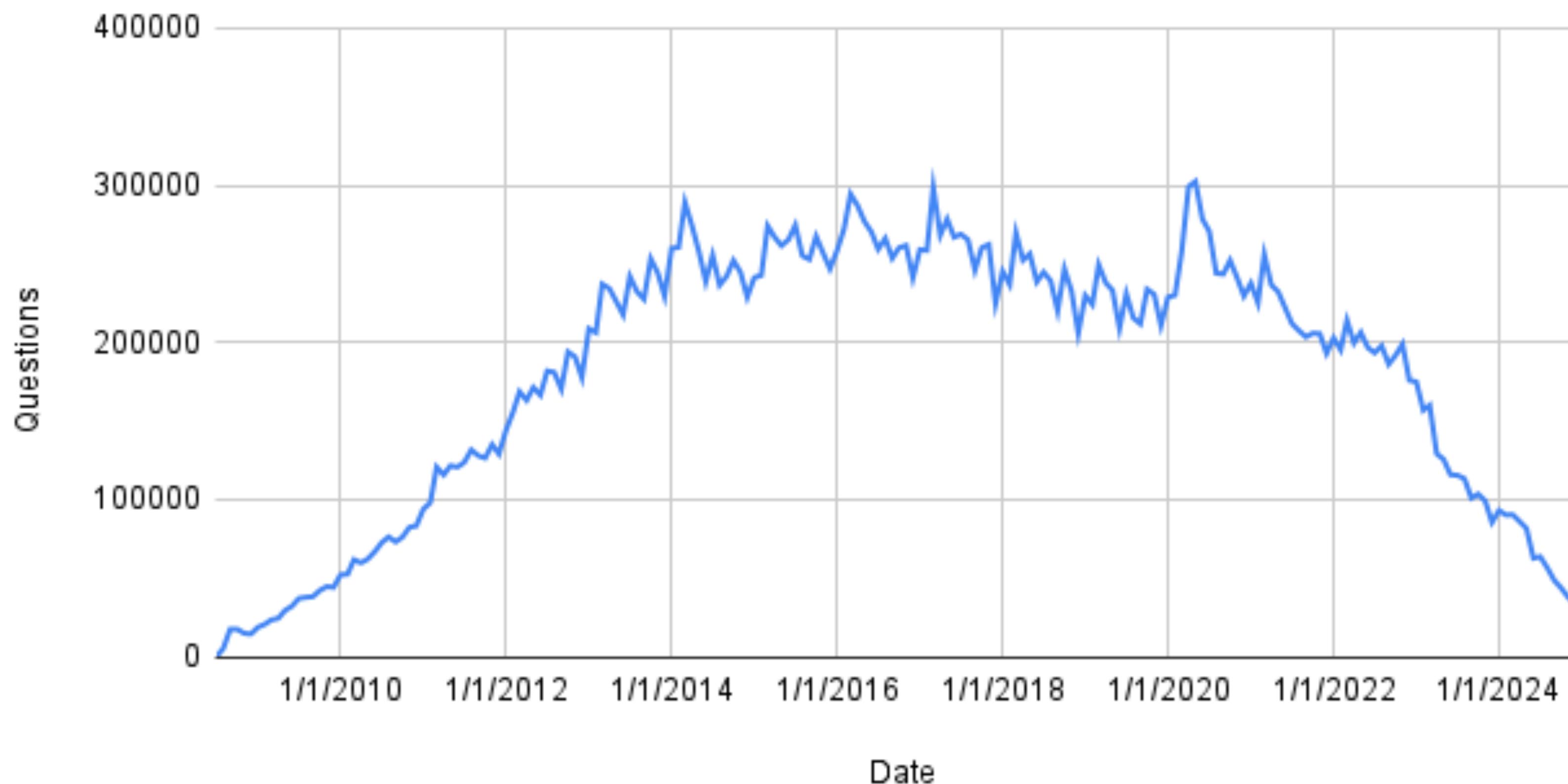
Ask Copilot

Ask Claude 3.7 Sonnet ➡

# The asker



Stack Overflow Questions Created per Month



# The asker

```
46    // case the colors provided by the parent (in this case the App widget) and
47    // used by the build method of the State. Fields in a Widget subclass are
48    // always marked "final".
49
50    final String title;
51
52    @override
53    State<MyHomePage> createState() => _MyHomePageState();
54 }
55
56 class _MyHomePageState extends State<MyHomePage> {
57     int _counter = 0;
58
59     void _incrementCounter() {
60         setState(() {
61             // This call to setState tells the Flutter framework that something has
62             // changed in this State, which causes it to rerun the build method below
63             // so that the display can reflect the updated values. If we changed
64             // _counter without calling setState(), then the build method would not be
65             // called again, and so nothing would appear to happen.
66             _counter++;
67         });
68     }
69
70     @override
71     Widget build(BuildContext context) {
72         // This method is rerun every time setState is called, for instance as done
73         // by the _incrementCounter method above.
74         //
75         // The Flutter framework has been optimized to make rerunning build methods
76         // fast, so that you can just rebuild anything that needs updating rather
77         // than having to individually change instances of widgets.
78         return Scaffold(
79             appBar: AppBar(
80                 // TRY THIS: Try changing the color here to a specific color (to
81                 // Colors.amber, perhaps?) and trigger a hot reload to see the AppBar
82                 // change color while the other colors stay the same.
83                 backgroundColor: Theme.of(context).colorScheme.inversePrimary,
84                 // Here we take the value from the MyHomePage object that was created by
85                 // the App.build method, and use it to set our appBar title.
86                 title: Text(widget.title),
87             ), // AppBar
88             body: Center(
89                 // Center is a layout widget. It takes a single child and positions it
90                 // in the middle of the parent.
91             ),
92         );
93     }
94 }
```

GitHub Copilot

> Used 1 reference

Here's just the `_pickFile` function for your Flutter app:

```
Future<void> _pickFile() async {
  try {
    FilePickerResult? result = await FilePicker.platform.pickFile();

    if (result != null) {
      setState(() {
        _filePath = result.files.single.path;
      });
      // Now you can use the file path to read the file
      final file = File(_filePath!);
      // Process your file here
      print('File selected: ${file.path}');
    } else {
      // User canceled the picker
      print('No file selected');
    }
  } catch (e) {
    print('Error picking file: $e');
  }
}
```

Don't forget to add the `file_picker` package to your `pubspec.yaml` and import the necessary packages at the top of your file:

```
import 'package:file_picker/file_picker.dart';
import 'dart:io';
```

Ask Copilot

Ask @ Claude 3.7 Sonnet ▶

# **Chapter III**

## **The vibe coders**

# The vibe coders

EXPLORER ... CHAT

OPEN EDITORS lib > main.dart > \_MyHomePageState > \_incrementCounter

main.dart lib

COPilot\_EXAMPLE

- .dart\_tool
- .idea
- android
- build
- ios
- lib
- main.dart
- test
- web
- .gitignore
- .metadata
- analysis\_options.yaml
- copilot\_example.iml
- pubspec.lock
- pubspec.yaml
- README.md

main.dart

```
class MyHomePage extends StatefulWidget {  
    // This class is the configuration for the state. It holds the values (in this  
    // case the title) provided by the parent (in this case the App widget) and  
    // used by the build method of the State. Fields in a Widget subclass are  
    // always marked "final".  
    final String title;  
    @override  
    State<MyHomePage> createState() => _MyHomePageState();  
}  
  
class _MyHomePageState extends State<MyHomePage> {  
    int _counter = 0;  
  
    void _incrementCounter() {  
        setState(() {  
            // This call to setState tells the Flutter framework that something has  
            // changed in this State, which causes it to rerun the build method below  
            // so that the display can reflect the updated values. If we changed  
            // _counter without calling setState(), then the build method would not be  
            // called again, and so nothing would appear to happen.  
            _counter++;  
        });  
    }  
  
    @override  
    Widget build(BuildContext context) {  
        // This method is rerun every time setState is called, for instance as done  
        // by the _incrementCounter method above.  
        //  
        // The Flutter framework has been optimized to make rerunning build methods  
        // fast, so that you can just rebuild anything that needs updating rather  
        // than having to individually change instances of widgets.  
        return Scaffold(  
            appBar: AppBar(  
                // TRY THIS: Try changing the color here to a specific color (to  
                // Colors.amber, perhaps?) and trigger a hot reload to see the AppBar  
                // change color while the other colors stay the same.  
                backgroundColor: Theme.of(context).colorScheme.inversePrimary,  
                // Here we take the value from the MyHomePage object that was created by  
                // the App.build method, and use it to set our appBar title.  
                title: Text(widget.title),  
            ),  
            body: Center(  
                // Center is a layout widget. It takes a single child and positions it  
                // in the middle of the parent.  
                child: Column(  
                    // Column is also a layout widget. It takes a list of children and  
                    // arranges them vertically. By default, it sizes itself to fit its  
                    // children horizontally, and tries to be as tall as its parent.  
                    //  
                    // Column has various properties to control how it sizes itself and  
                    // positions its children.  
                ),  
            ),  
        );  
    }  
}
```

Edit with Copilot

Agent Mode

Ask Copilot to edit your files in [agent mode](#). Copilot will automatically use multiple requests to pick files to edit, run terminal commands, and iterate on errors.

Copilot is powered by AI, so mistakes are possible.  
Review output carefully before use.

or type # to attach context

Add Context... main.dart Current file

lm

Agent Claude 3.7 Sonnet

# Sign me in

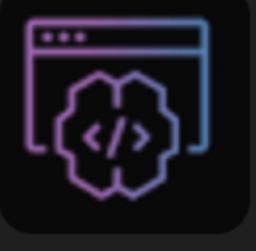
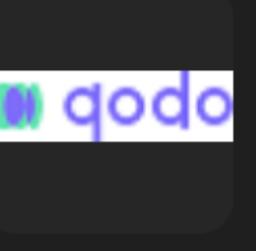
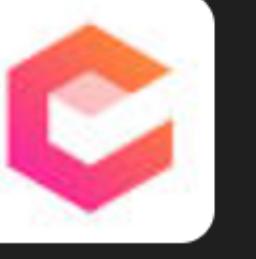
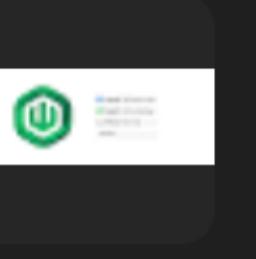
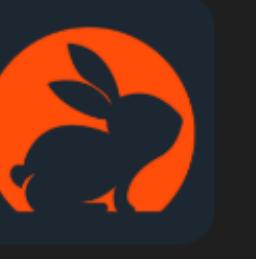
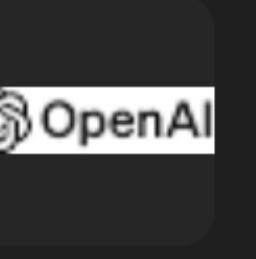


**Which AI tool is boosting  
Flutter development the most?**

# **So what are the options?**

# So what are the options?

`most popular ai coding assistants`

 GitHub Copilot	 Tabnine	 Replit
 Amazon CodeWhisperer	 CodiumAI	 Amazon Q Developer
 AskCodi	 CodeGeeX	 Codiga
 DeepCode	 ChatGPT	 CodeWP
 Cody	 Cursor	 JetBrains AI Assistant
 Android Studio Bot	 IntelliCode	 OpenAI Codex
 CodeT5		

# What for flutter?

‘most popular ai coding assistants for Flutter’



Reddit · r/FlutterDev

40+ comments · 5 months ago · :

**What's the best AI code generator for Flutter, in your ...**

I use **copilot** for code completion, works well for me. For interactive documentation or quick snippets I like Claude (via API). Personally I find OpenAI models ...

40 answers · Top answer: The comments in here are so funny to me. I have been building an app usin...

AI tools for flutter dev : r/FlutterDev - Reddit

14 answers 5 Sept 2024

**Best AI Code Companion for Flutter Projects? (Android ...** 17 answers 18 Oct 2024

More results from [www.reddit.com](http://www.reddit.com)

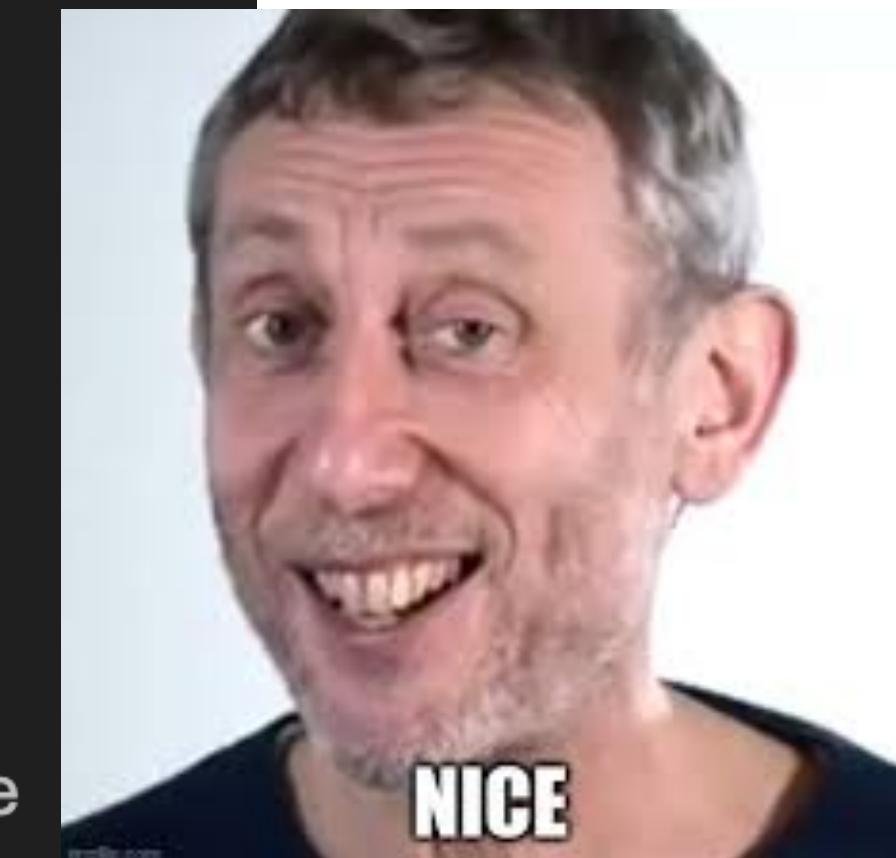


Droids On Roids

<https://www.thedroidsonroids.com> › blog › best-ai-codi... · :

**10 Best AI Coding Assistant Tools in 2025**

The 10 best AI coding assistant tools. In crafting this guide to the best AI coding assistant tools, I have selected **GitHub Copilot**, Tabnine, Continue, Amazon ...



<https://www.thedroidsonroids.com/blog/best-ai-coding-assistant-tools>

By Karol Wrótniak

# What for flutter?

## Tools in 2025 – Guide for Developers

Karol Wrótniak | 6 min read

Explore 10 top-notch AI-powered tools for developers that can increase your productivity, improve accuracy in coding, and much more.

BUSINESS

DEVELOPMENT

AI

OCTOBER 25, 2024

8 months ago!

First public copilot release ~ 30 months ago!

# What for flutter?



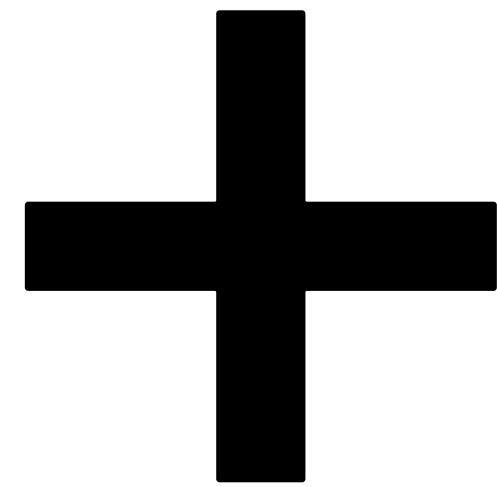
**GitHub**  
Copilot



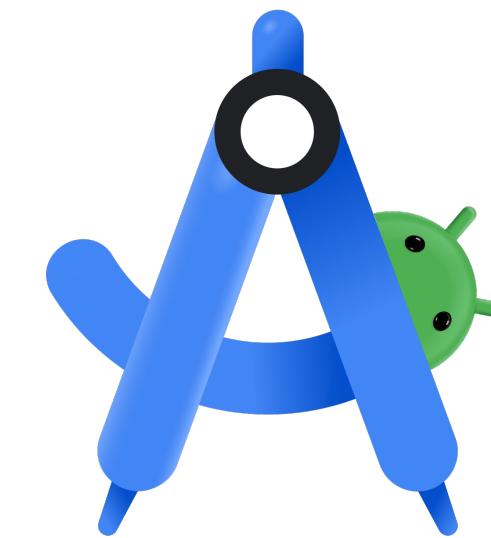
Gemini Code Assist



tabnine



Visual Studio Code



# What for flutter?



Former Codeium



# What for flutter?



Sunset



Very basic



Very basic

NO GO



JetBrains AI Assistant



JetBrains s.r.o. ✓

2.2



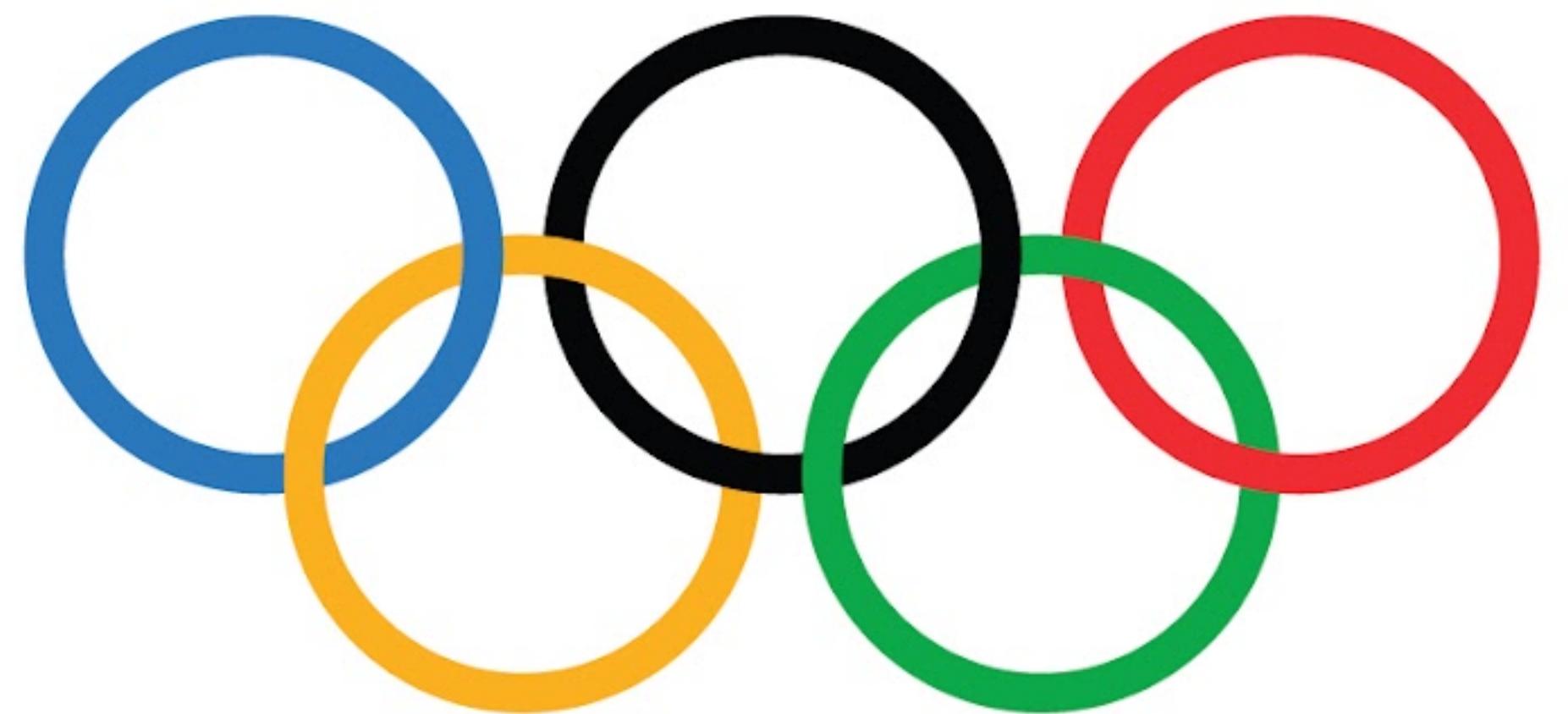
932 Ratings (25,073,422 Downloads)



Zed.dev

Not for Flutter yet  
Worth following!

# Let the Olympics start



# Scoreboard

	Features	Coding task	‘VibeCodingness’
<b>Copilot</b>			
<b>Gemini Code Assist</b>			
<b>Tabnine</b>			
<b>Blackbox AI</b>			
<b>Windsurf</b>			
<b>Cursor</b>			
<b>Trae</b>			

## Each tool has:

- AI Chat
- Chat can access project files
- Autocomplete code



**GitHub**  
Copilot

- Speech to prompt (nice)
- Can upload image
- Can choose model
- Self-correction
- Can execute CLI commands

# Overview

GEMINI CODE ASSIST: CHAT

Hello, Jasiek

How can Gemini help?

ⓘ Gemini Code Assist updated to version 2.35.0 X  
Learn more about new features and capabilities available in the [release notes](#)

ⓘ The Google Terms and Use Policy apply. The Privacy Notice describes how your conversations, code, and other data may be reviewed and used, including to improve Google AI.  
Gemini can make mistakes, so double-check it and [use code with caution](#).

Dismiss

Prompts to try

ⓘ How do I use Gemini Code Assist?

Ask Gemini or type '@' ➤

1 context items ➤



# Overview

- Integrates tools (this list is all there is)
- Create custom commands (IntelliJ only)

The screenshot shows a dark-themed interface for Gemini Code Assist. At the top, a header bar displays the text "@Tools Connect APIs & data". Below this, a list of ten tools is presented in a grid format, each with an icon and a brief description:

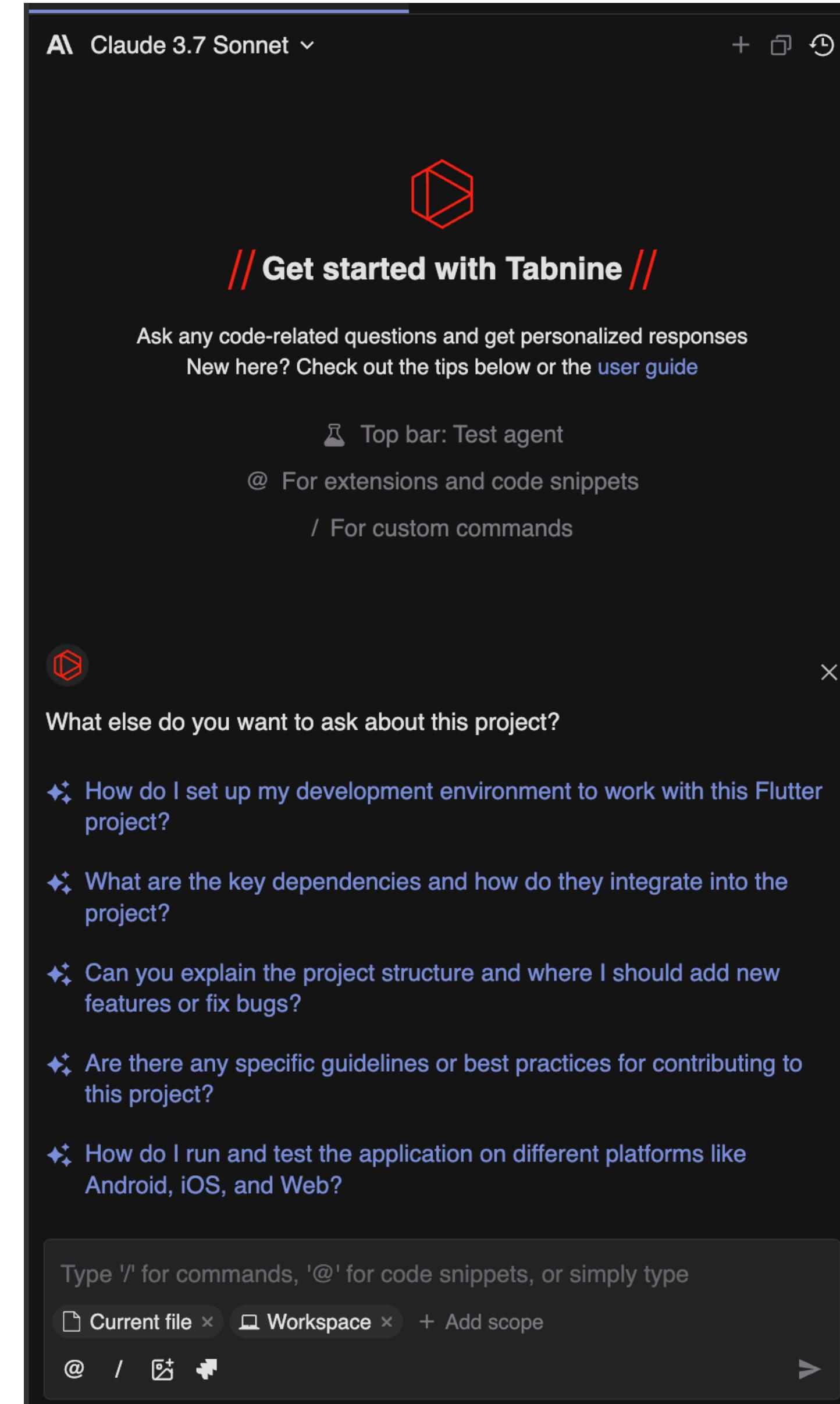
Tool	Description
GoogleDocs	Search and summarize docs
GitHub	Manage issues and pull requests
GitLab	Manage issues and merge requests
MongoDB	Ask official MongoDB docs questions here
Neo4j	Provide insight of the use and configuration of Neo4j
NewRelic	Monitor and analyze observability data
Redis	Instant command help, best practices & insights.
AtlassianRovo	Atlassian Rovo brings all of your company's knowl...
Sentry	Search and view Sentry activity
Snyk	Scan early, fix as you develop
Apigee	Design consistent APIs faster with Apigee API hub

At the bottom of the interface, there is a footer bar with a central button labeled "1 context items" and a right-pointing arrow.



# Overview

- Integrates with Jira
- Ask - you have to click to apply the changes
- Can upload image
- Can choose model





- Can upload image
- Can choose model
- Remote Agent
- Advanced self-correction
- Uses CLI
- Figma to code? (90\$/mo)

# Overview

The screenshot shows the Blackbox AI web interface. At the top, there's a navigation bar with links for New Task, Plan, Rules, History, MCP, and Docs. Below the navigation is a secondary menu with tabs for Agent (selected), Chat, Remote Agent, GPUs, Add Credits, and PRO. The main content area has a dark background. On the left, there's a sidebar with a "RECENT TASKS" section showing a single item from "JUNE 11, 2:29 PM" which says "Here are the environment details for the task." At the bottom, there's a large input field labeled "Blackbox Pro" with a dropdown arrow, containing the placeholder text "Type your task here (@ to add files...)" and some small icons.

Ask BLACKBOXAI

BLACKBOXAI is the most advanced coding agent.

RECENT TASKS

JUNE 11, 2:29 PM

Here are the environment details for the task.

View all history

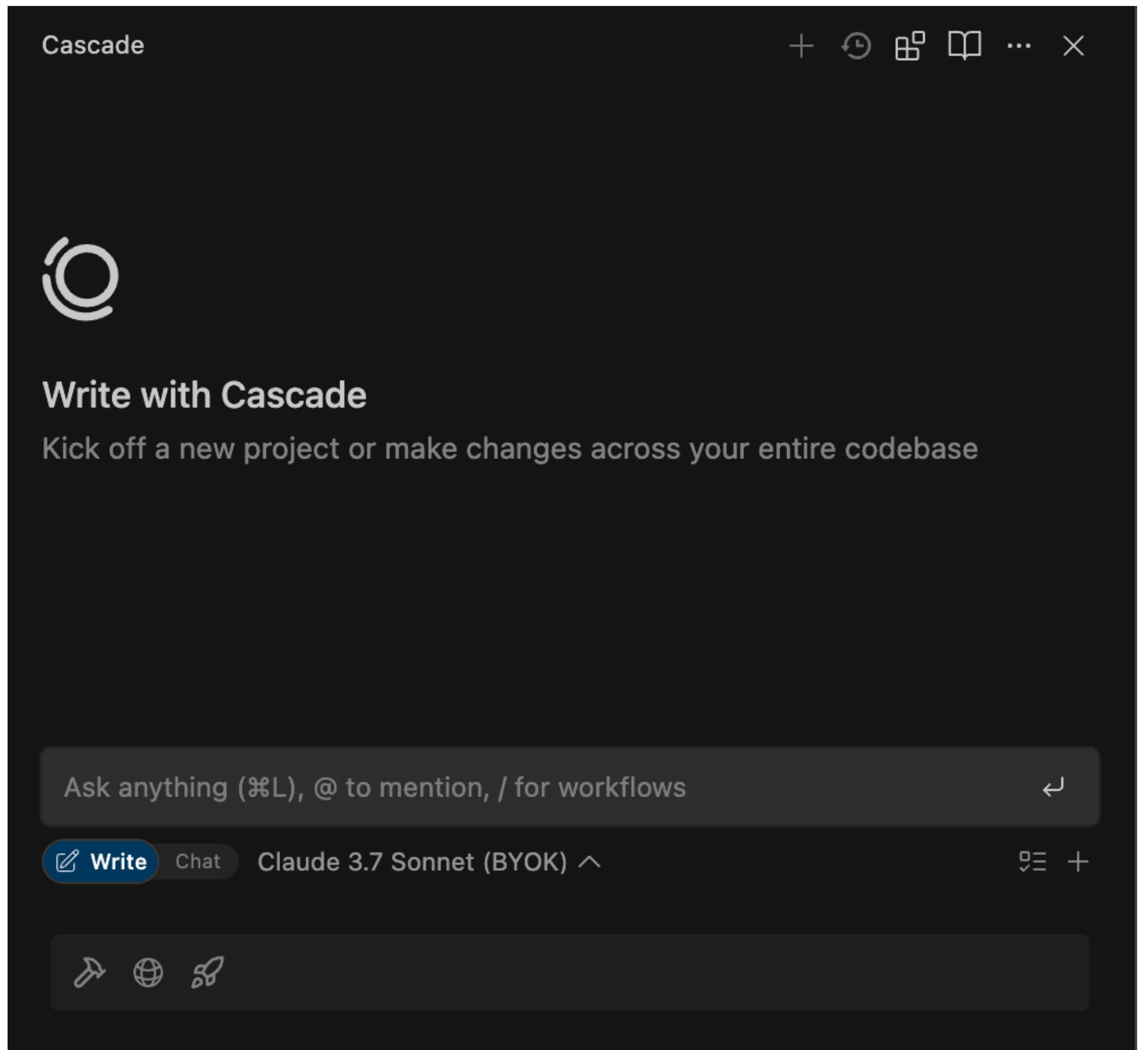
Blackbox Pro ▾

Type your task here (@ to add files)... ▶

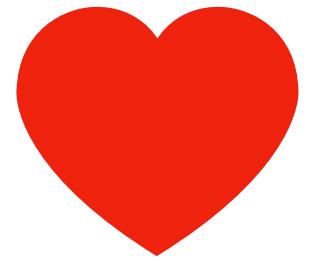
# Overview



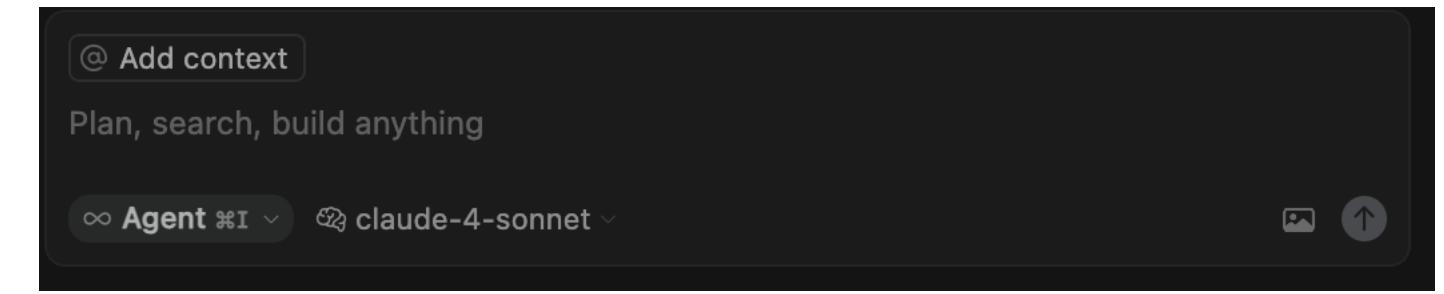
- Can upload image
- Can choose model (free too)
- MCP support



# Overview



- Can upload image
- Can choose model
- I love its autocomplete/refactor
- You can add rules ( context to run every command with)
- Self-correction





# Overview

- Can upload image
- Can choose model
- Strong MCP support
- Self-correction

**Collaborate with Trae**

'↑↓' to navigate input history, '↶↷' to insert a new line

@Agent #Context Images AI Claude-3.7-Sonnet ➔

➔ @Builder Create a Snake game ➔

➔ @Builder Create a To-Do list app ➔

A screenshot of the Trae AI interface. At the top, it says "Collaborate with Trae". Below that is a text input field with placeholder text "'↑↓' to navigate input history, '↶↷' to insert a new line". Underneath the input field are three buttons: "@Agent", "#Context", and "Images". To the right of these buttons is a "AI Claude-3.7-Sonnet" button with a chevron icon. Below the input field, there are two cards representing recent projects. The first card has a video camera icon and the text "@Builder Create a Snake game". The second card has a checklist icon and the text "@Builder Create a To-Do list app". Each project card has a chevron icon at the end of its row.

# Scoreboard

	Features	Coding Task	‘VibeCodingness’
<b>Copilot</b>	7		
<b>Gemini Code Assist</b>	4		
<b>Tabnine</b>	6		
<b>Blackbox AI</b>	8		
<b>Windsurf</b>	6		
<b>Cursor</b>	7		
<b>Trae</b>	6		

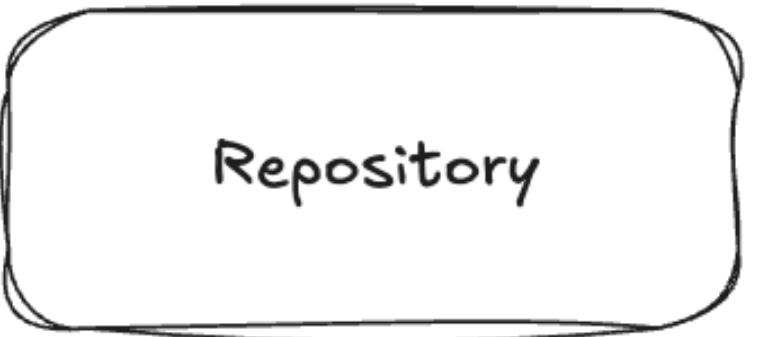
# Task I ( add pagination )



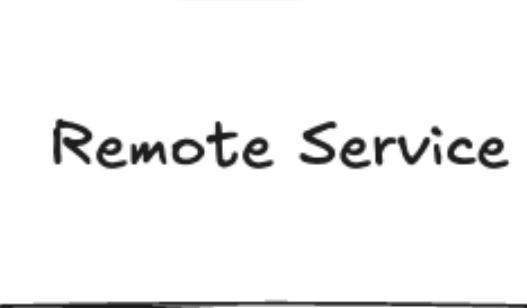
presentation



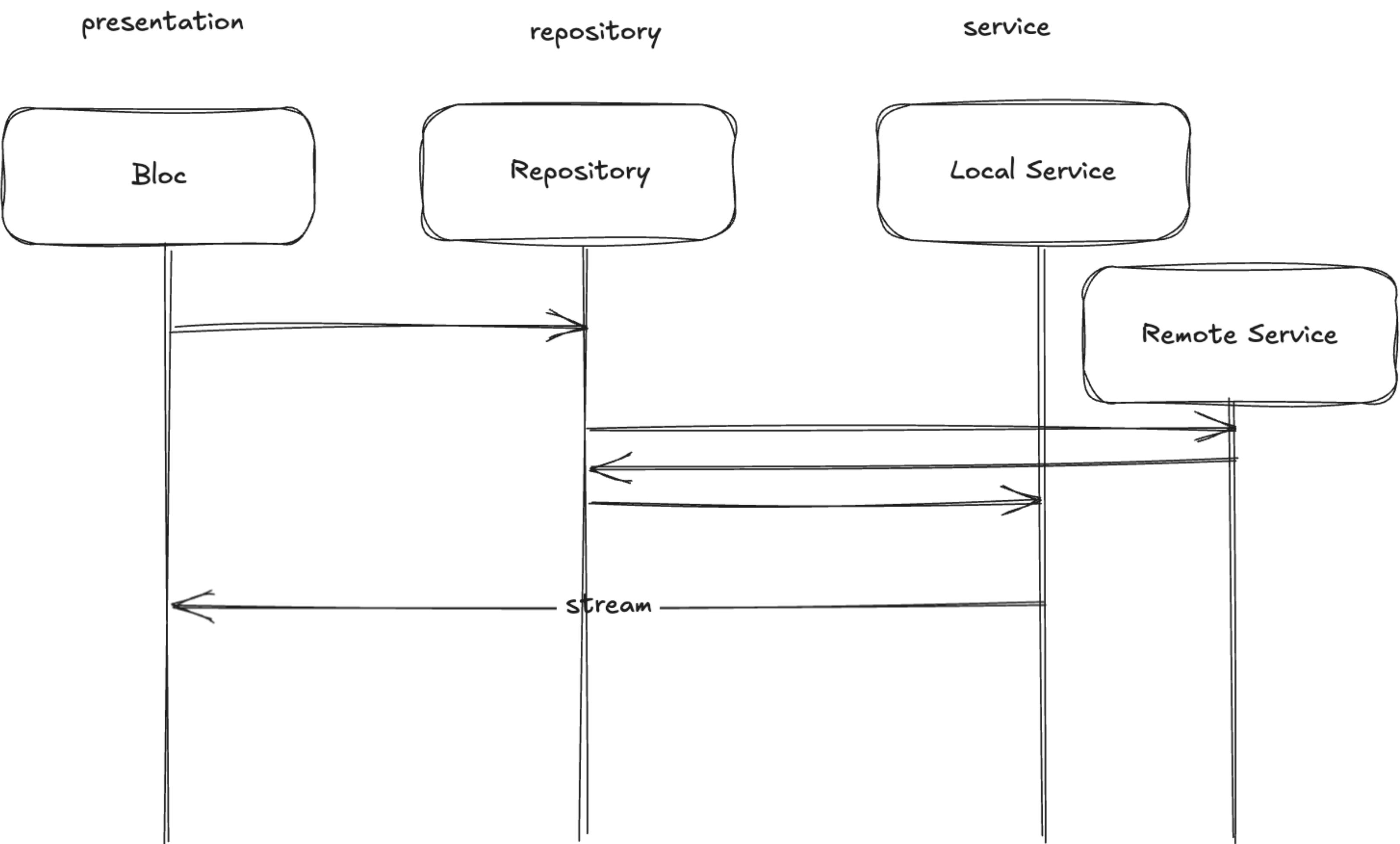
repository



service



# Task I ( add pagination )



# Task I ( add pagination )

Prompt used:

For the movie\_list\_results\_list.dart implement pagination,  
keep existing project architecture



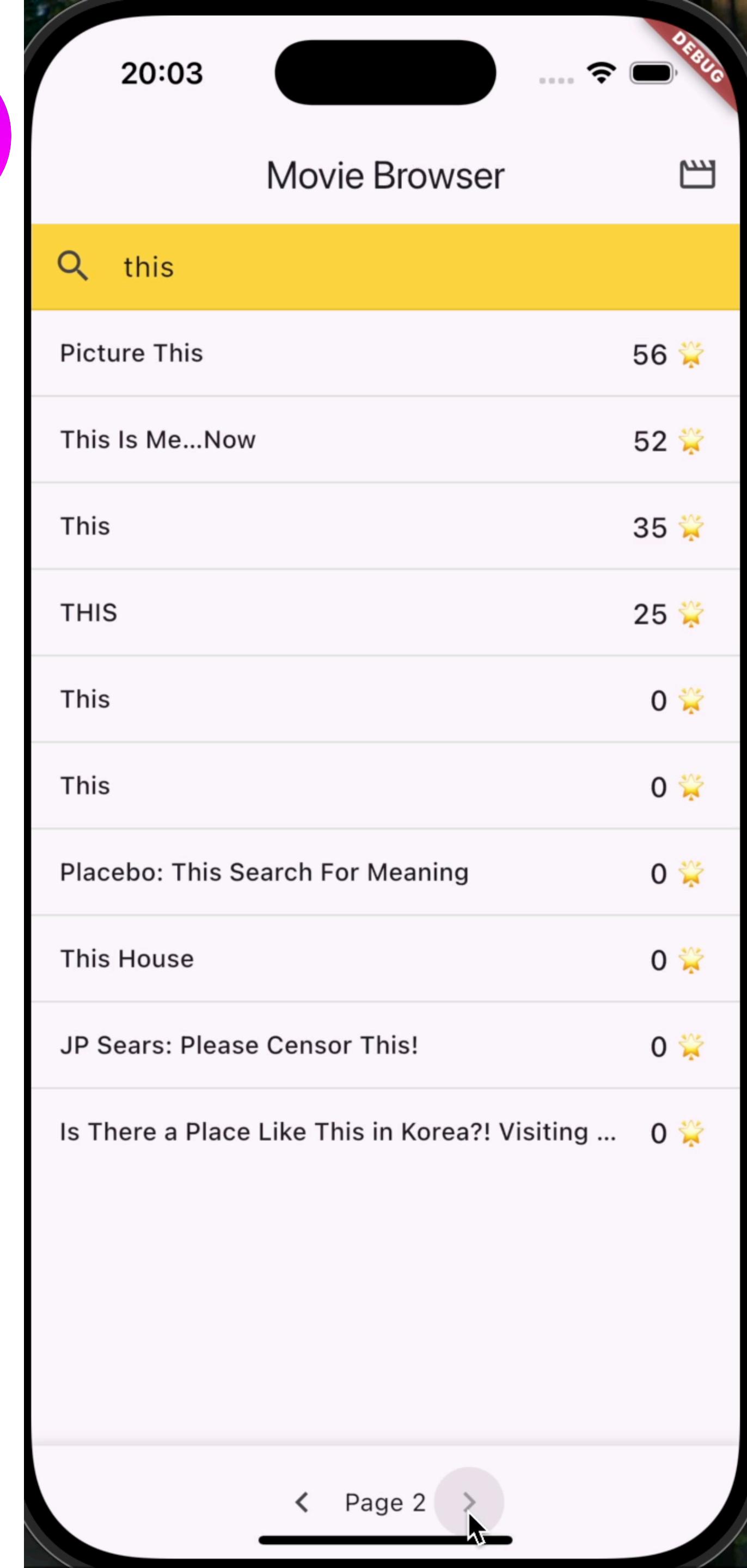
**GitHub**  
Copilot

Claude sonnet 3.7

- Change touches all 3 layers
- Pagination requires additional state  
( pageModel )
- Did not split the folders correctly
- **Pagination works for first 2 pages only**

Continue to iterate?  
  
Copilot has been working on this problem for a while. It can continue to iterate, or you can send a new message to refine your prompt.

# Task I ( add pagination )



# Task I ( add pagination )



- Can't apply changes
- Mentioned class names and files do not exist
- Did not point, the changes are needed in service layer
- **Did infinite scroll pagination on UI that would work**

The code change produced by Gemini cannot be automatically applied. You can manually apply the change or ask Gemini to try again.

[File a report](#)

4. Update `MovieRepository` Ensure your `fetchMovies` method in the repository accepts a `page` parameter.

```
x dart
// Example: lib/repositories/movie_repository.dart
// ...
// Future<List<Movie>> fetchMovies(String query, {int page = 1});
// ...
```

builder(BuildContext context, State state) {

Unchanged lines Those lines do not exist in codebase

```
if (state.status == MovieStatus.initial) {
    return const Center(child: Text('Please enter a search term.'));
}
```

# Task I ( add pagination )



Claude sonnet 3.7

- Created new files, not altering existing implementation
- Did not figure out that repository does not return the results, but are emitted on stream

A screenshot of a code editor showing a context menu. The menu has a dark background with light-colored text. It includes options like "Insert at cursor" and "Apply". A red box highlights the "Apply" button. The code in the editor is:

```
}
```

```
</> movie_list_local_service.dart
```

```
Future<MovieList?> getMovies({
```

```
    required String query,
```

```
    int page = 1,
```

```
) async {
```

```
    try {
```



# Task I ( add pagination )

- Presented with a plan
- Executed it
- Asked if I want to test to provision for it

Plan:

## 1. Update State:

- Add pagination-related fields to MovieListState (currentPage, hasReachedEnd)
- Add LoadMoreMovies event to MovieListBloc

## 2. Update Repository & Services:

- Modify searchMovies to accept page parameter
- Update local service to append results instead of replacing
- Add method to load more results for the current search

## 3. Update UI:

- Modify MovieListResultsList to detect when user reaches end of list
- Add loading indicator at bottom when fetching more results
- Trigger LoadMoreMovies event when reaching end of list

Dependent Files to be edited:

1. lib/movies/list/presentation/state/movie\_list\_bloc/movie\_list\_bloc.dart
2. lib/movies/list/presentation/state/movie\_list\_bloc/movie\_list\_state.dart
3. lib/movies/list/presentation/state/movie\_list\_bloc/movie\_list\_event.dart
4. lib/movies/list/domain/repositories/movie\_list\_repository.dart
5. lib/movies/list/data/services/movie\_list\_remote\_service.dart
6. lib/movies/list/data/services/movie\_list\_local\_service.dart
7. lib/movies/list/presentation/widgets/movie\_list\_results\_list.dart

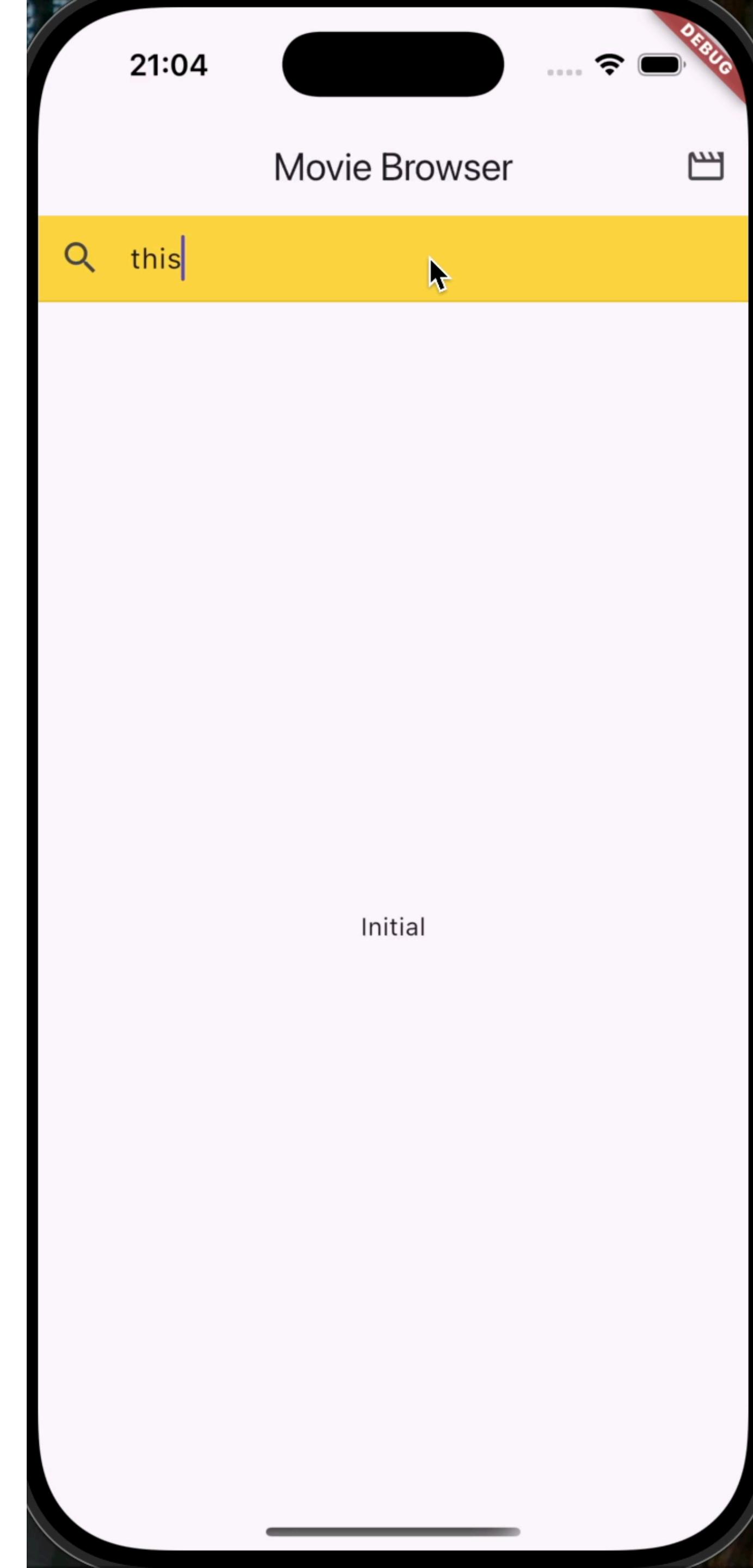
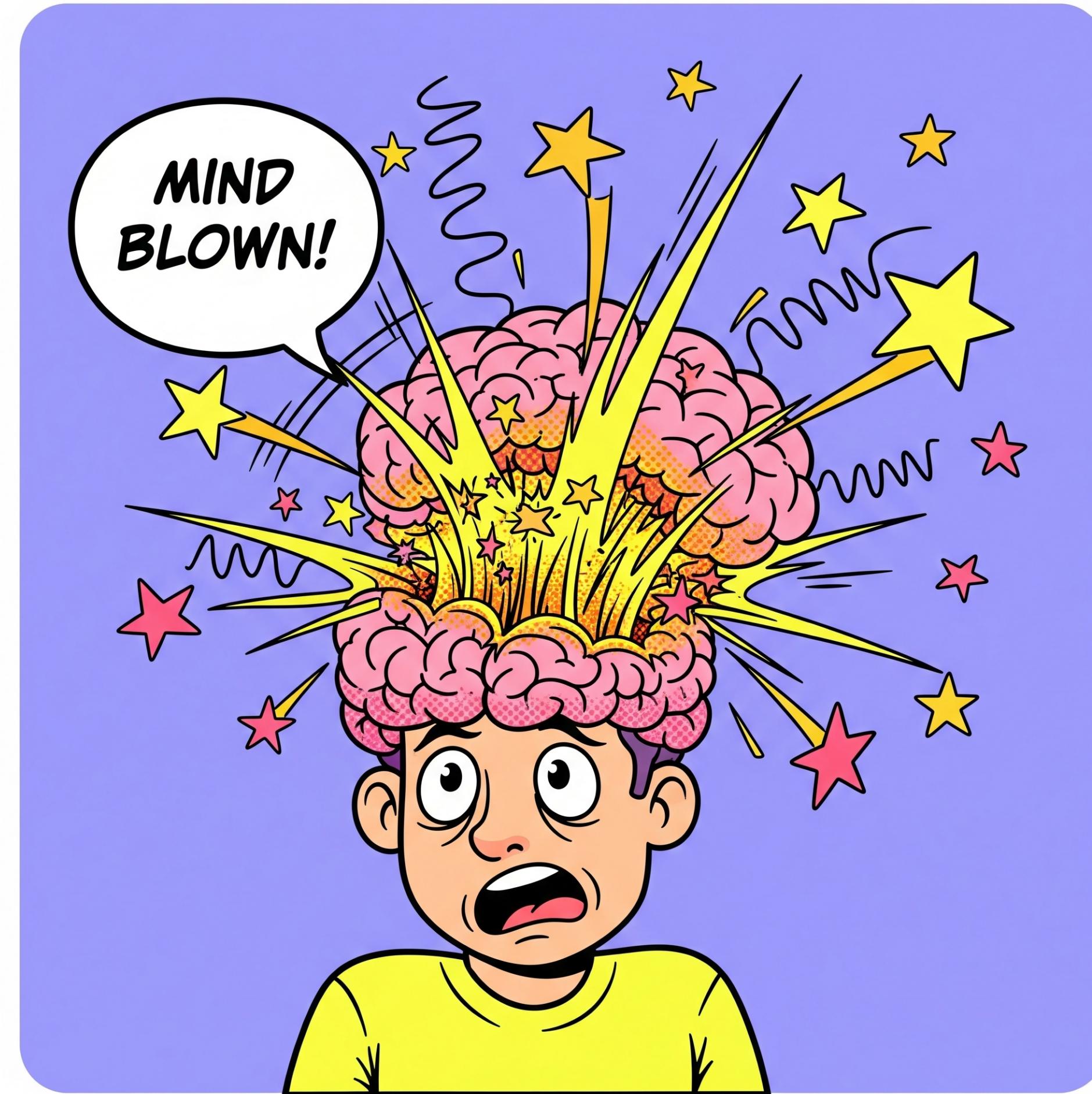
Followup steps:

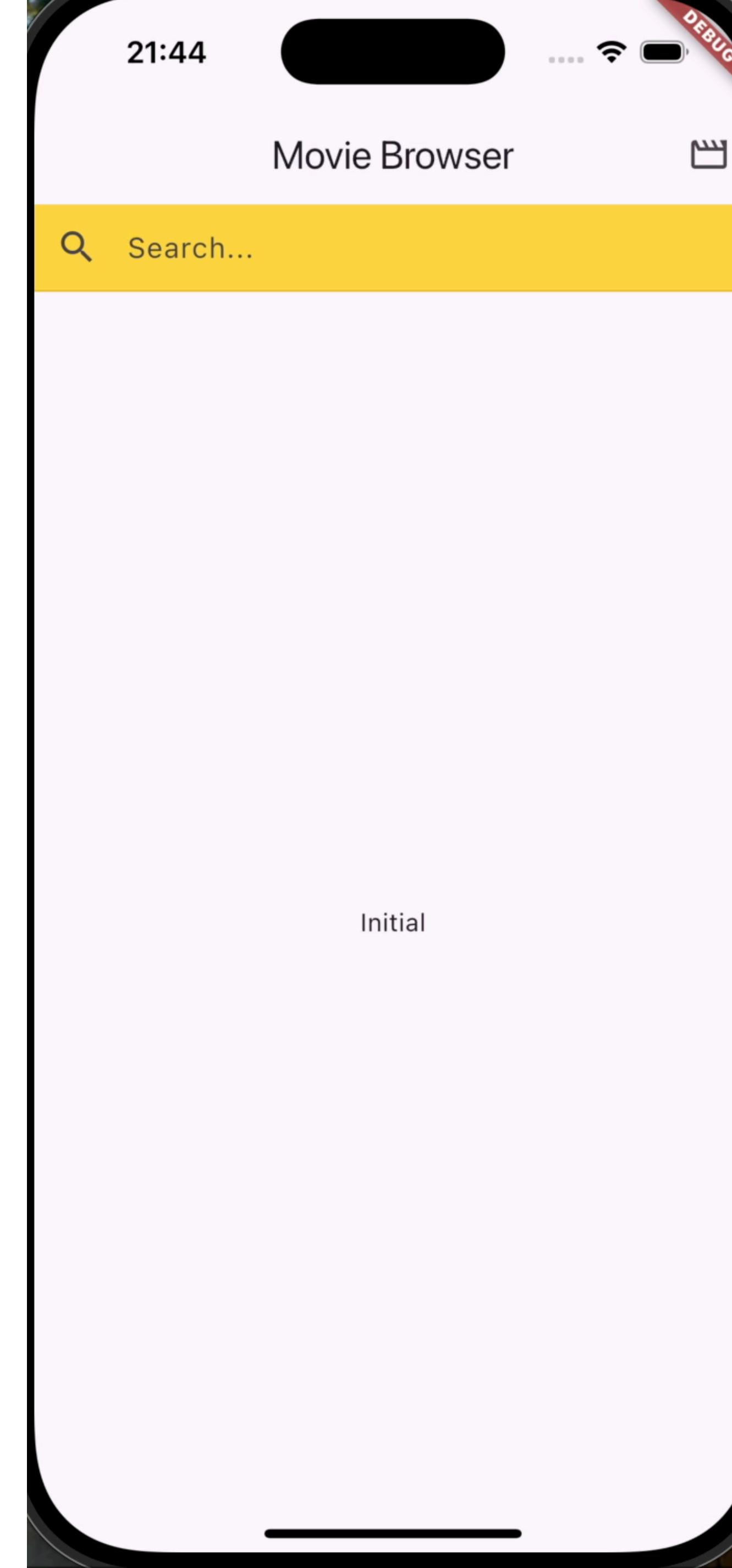
- Test pagination functionality
- Verify smooth scrolling and loading
- Check error handling



- **It all worked**

# Task I ( add pagination )



A screenshot of an iPhone displaying a Flutter mobile application. The top status bar shows the time as 21:44 and the word "DEBUG". The app's title "Movie Browser" is at the top. Below it is a yellow search bar with a magnifying glass icon and the placeholder text "Search...".

Search...

# Task I ( add pagination )



Windsurf

GPT - 4.1

- Repository/ service logic correct
- Flutter components failed

```
void _onScroll() {
  final bloc = BlocProvider.of<MovieListBloc>(context);
  final state = bloc.state;
  if (!_scrollController.hasClients || state.isLoadingMore) return;
  final threshold = 200.0;
  if (_scrollController.position.extentAfter < threshold &&
    || state.currentPage < state.totalPages) {
    // We assume the query is tracked in state.error for now, but ideally should be a dedicated field
    final query = state.error ?? '';
    bloc.add(LoadMoreMovies(query: query, page: state.currentPage + 1));
}
```

Initial



Claude 4 sonnet

- Presented with a plan
- Executed it
- Asked to fix tests

# Task I ( add pagination )

Thought for 4 seconds

The user wants me to implement pagination for the movie list results. I need to first find the `movie_list_results_list.dart` file and understand the existing project architecture to implement pagination while keeping the current architecture.

Let me start by:

1. First, let me search for the `movie_list_results_list.dart` file to understand the current implementation
2. Then I'll need to look at the existing architecture - I can see there are movie list services for local and remote data
3. I'll need to understand how the current movie list works to add pagination properly

Let me start by finding the file and understanding the current implementation.

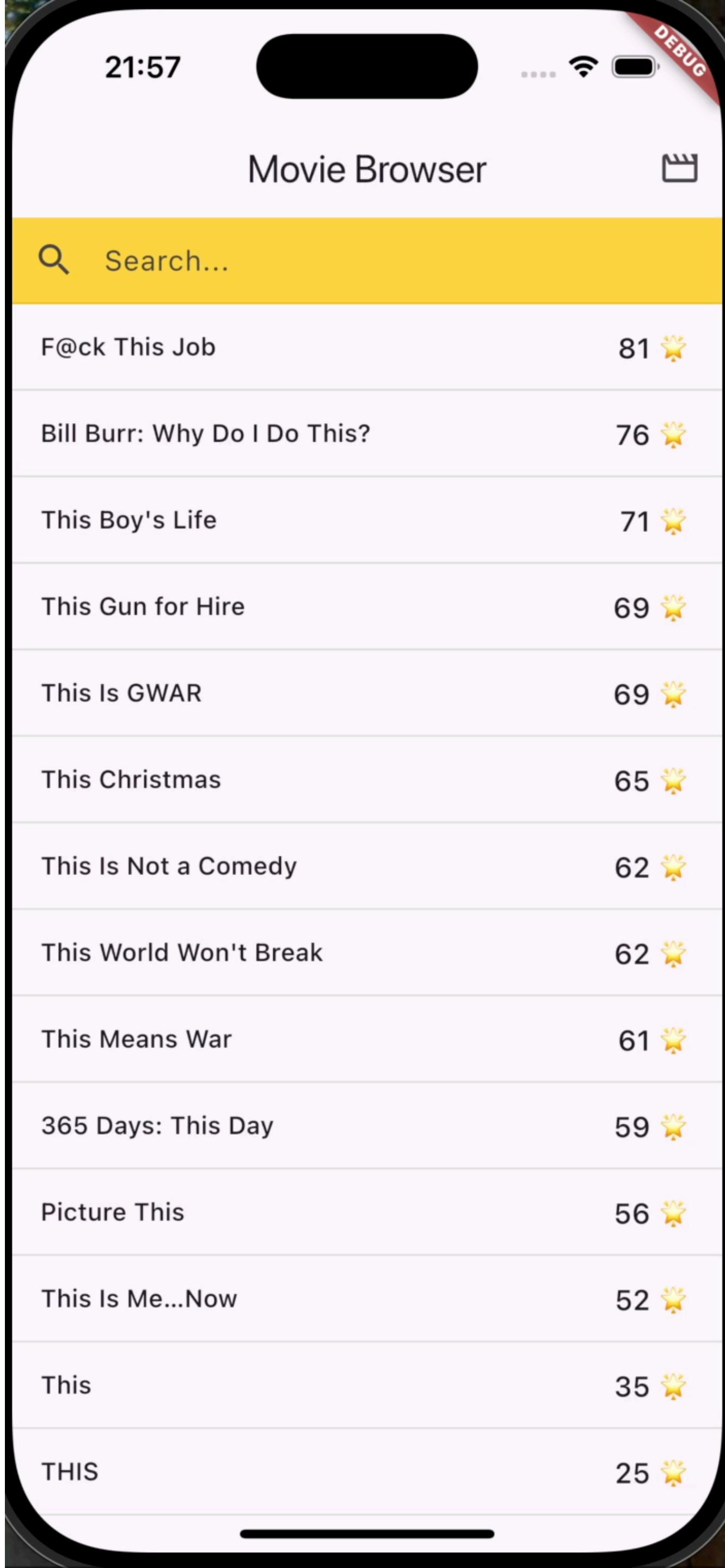
I'll help you implement pagination for the movie list results while maintaining the existing project architecture. Let me first explore the current implementation to understand the structure.

🔍 Searched files "movie\_list\_results\_list.dart"

👁️ Read `movie_list_results_list.dart`

Now let me explore the existing architecture to understand how the movie list is currently managed. I need to look at the BLoC pattern and services.

🔍 Searched codebase for "MovieList bloc cubit state management"





Claude 4 sonnet

- Presented with a plan
- Executed it
- Asked to fix tests

To implement pagination for the movie list, I need to first locate and understand the existing movie list implementation, then add pagination functionality while maintaining the current architecture.

Search in the workspace ▾

I need to examine the movie list remote service to understand how data is fetched and the movie list bloc to see how pagination can be integrated.

Search in the workspace ▾

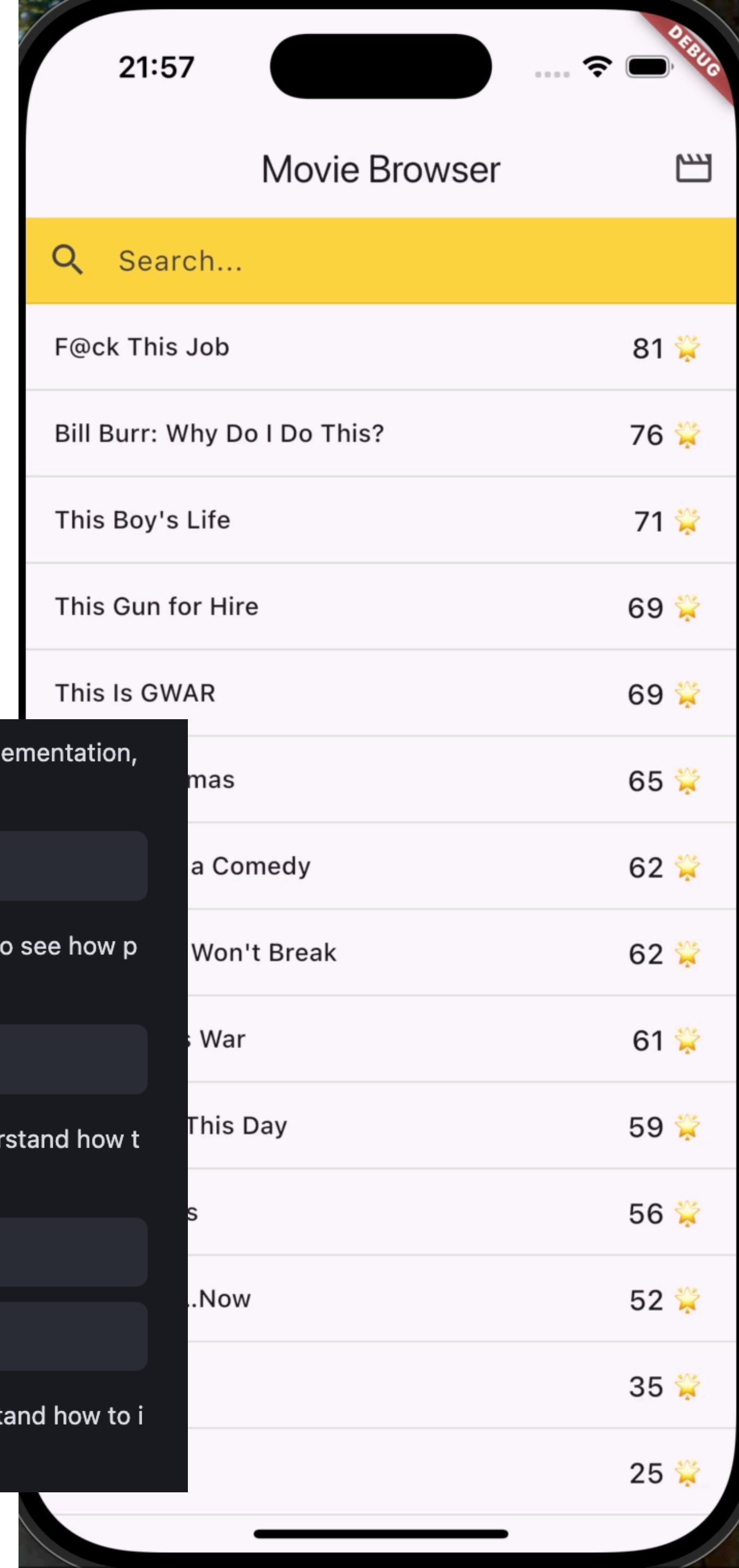
I need to see the complete implementation of the movie list remote service and the movie list bloc to understand how to implement pagination.

lib/movies/list/data/services/movie\_list\_remote\_service.dart :(1-50)

lib/movies/list/presentation/state/movie\_list\_bloc/movie\_list\_bloc.dart :(1-70)

Now I need to see the movie list repository, movie list state, and the movie list results list widget to understand how to implement pagination.

# Task I (add pagination)



# Scoreboard

	<b>Features</b>	<b>Add pagination</b>	<b>`VibeCodingness`</b>
<b>Copilot</b>	7		
<b>Gemini Code Assist</b>	4	1	
<b>Tabnine</b>	6	1	
<b>Blackbox AI</b>	8		
<b>Windsurf</b>	6		
<b>Cursor</b>	7		
<b>Trae</b>	6		

# Scoreboard

	<b>Features</b>	<b>Add pagination</b>	<b>`VibeCodingness`</b>
<b>Copilot</b>	7	5	
<b>Gemini Code Assist</b>	4	1	
<b>Tabnine</b>	6	1	
<b>Blackbox AI</b>	8		
<b>Windsurf</b>	6	5	
<b>Cursor</b>	7		
<b>Trae</b>	6		

# Scoreboard

	Features	Add pagination	`VibeCodingness`
<b>Copilot</b>	7	5	
<b>Gemini Code Assist</b>	4	1	
<b>Tabnine</b>	6	1	
<b>Blackbox AI</b>	8	10	
<b>Windsurf</b>	6	5	
<b>Cursor</b>	7	9	
<b>Trae</b>	6	8	

# Vibe coding task



←

1 Personal details

## Checkout

**Device & plan details**

Nomad package includes:

- One hub
- One plug
- Instruction manual

"Pro" plan includes:

- First feature
- Second feature
- Third feature

**1. Shipping details**

Enter the address where you'd like to receive your Nomad package

Name  
Enter your name

Surname  
Enter your surname

Email  
Enter your email

Phone(optional)

**Summary**

Nomad package	120\$
"Pro" plan	79\$
<b>Total</b>	<b>199\$</b>

©Copyright 2025 NOMAD

Nomad package will be sent to:

Address  
ul. Długa 10/4, 51-111  
Wrocław, Poland

Full name  
Anna Kowalska

Email  
a.kowalska@gmail.com

**Edit**

**2. Payment details**

Enter your card details

Card number  
1111 2222 4444 5555

End date  
01/26

CVC/CVV  
123

Name on the card  
Anna Kowalska

**Continue**

**Summary**

Nomad package	120\$
"Pro" plan	79\$
<b>Total</b>	<b>199\$</b>

©Copyright 2025 NOMAD



←

3 Create account

## Create account

Your plan **Pro**  
79\$/month

**3. Create account**

Fill the form to create an account

Add photo +

**Personal data**

Name  
Enter your name

Surname  
Enter your surname

Email  
Enter your email

Phone(optional)  
XXX-XXX-XXX

**Address**

Country  
Enter your country

Region  
Enter your region

**Create an account**



←

3 Create account

## Create account

Your plan **Pro**  
79\$/month

**3. Create account**

You're almost set. Set your password and create the account.

New password  
Enter your password

Repeat new password  
Enter your password

**Create an account**

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# Vibe coding task

Create mobile app in Flutter, use layered architecture consisting of service, repository and UI layers. Use dependency injection. For passing service and repository over widget tree use `RepositoryProvider` from `flutter_bloc` package.

For state management use `Bloc`.

For authentication use `Firebase Authentication`.

Allow only for email and password registering.

For payment processing and subscription use `Stripe`.

For database use `FirebaseFirestore`.

For theme use `Flutter` in `buildTheme`.

Implement app using `flutter_localizations` supporting only English.

Use UI provided in the images.

Add additional `HomePage` and `SuccessPage` that would match the app.

Implement navigation to all the pages. Use `go_router`



# Vibe coding

BLACKBOX

New Task Plan Rules History MCP Docs

Agent

Chat

Remote Agent

GPUs

Add Credits

PRO

Ask BLACKBOXAI

BLACKBOXAI is the most advanced coding agent.

RECENT TASKS

JUNE 15, 5:30 PM

Create mobile app in Flutter, use layered architecture consisting of service, repository and UI layers. Use dependency injection. For passing service and repository over widget tree use RepositoryProvider from flutter\_bloc package. ...

View all history

Blackbox Pro ▾

Create mobile app in Flutter, use layered architecture consisting of service, repository and UI layers. Use dependency injection. For passing service and repository over widget tree use RepositoryProvider from flutter\_bloc package. For state management use Bloc. For authentication use Firebase Authentication. Allow only for email and password registering. For payment processing and subscription use Stripe. For database use FirebaseFirestore. For theme use Flutter in build AppTheme. Implement app using flutter\_localizations supporting only English. Use UI provided in the images. Add additional HomePage and SuccessPage that would match the app|



MCP Local Remote

Manual Auto



# Vibe coding

10 minutes later...



# Vibe coding

```
Error output from CocoaPods:  
↳  
[!] Automatically assigning platform `iOS` with version `12.0` on target `Runner` because no platform was specified. Please specify a platform for this target in your Podfile.  
e. See `https://guides.cocoapods.org/syntax/podfile.html#platform`.  
  
Error: The plugin "cloud_firestore" requires a higher minimum iOS deployment version than your application is targeting.  
To build, increase your application's deployment target to at least 13.0 as described at https://flutter.dev/to/ios-deploy  
Error running pod install  
Error launching application on iPhone 16 Pro.
```

flutterfire configure



# Vibe coding

18:24

Nomad



18:28

Personal details



18:28

Payment



Start Checkout

Name

Surname

Email

Phone(optional)

Country

Region

City

Postal code

Address

Card number

End date

CVC/CVV

Name on the card

Continue

Continue

# Vibe coding task



Nomad package will be sent to:

Address  
ul. Długa 10/4, 51-111  
Wrocław, Poland

Full name  
Anna Kowalska

Email  
a.kowalska@gmail.com

**1 Personal details**

**Checkout**

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Phone(optional)

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[Edit](#)

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Email  
a.kowalska@gmail.com

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Enter your card details

Card number  
1111 2222 4444 5555

End date  
01/26

CVC/CVV  
123

Name on the card  
Anna Kowalska

**Continue**

**3 Create account**

**Create account**

Your plan **Pro**  
79\$/month

**3. Create account**

Fill the form to create an account

Add photo +

**Personal data**

Name  
Enter your name

Surname  
Enter your surname

Email  
Enter your email

Phone(optional)  
XXX-XXX-XXX

Address

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Enter your country

Region  
Enter your region

[Edit](#)

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**Create account**

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79\$/month

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Surname  
Enter your surname

Email  
Enter your email

Phone(optional)  
XXX-XXX-XXX

Address

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Enter your country

Region  
Enter your region

**Create an account**

**3 Create account**

**Create account**

Your plan **Pro**  
79\$/month

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New password  
Enter your password

Repeat new password  
Enter your password

**Create an account**

[Edit](#)

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18:29

DEBUG

## Create account

You're almost set. Set your password and create the account.

New password —————

..... 

Repeat new password —————

..... 

[Create an account](#)

18:29

DEBUG

Success



**Your order has been successfully processed!**

[Back to Home](#)

```
Navigator.of(context).pushNamed('/create_account');
```



# Vibe coding

Claude 4 sonnet

Over 20min of generating files

iOS issues

flutterfire configure



Claude 4 sonnet

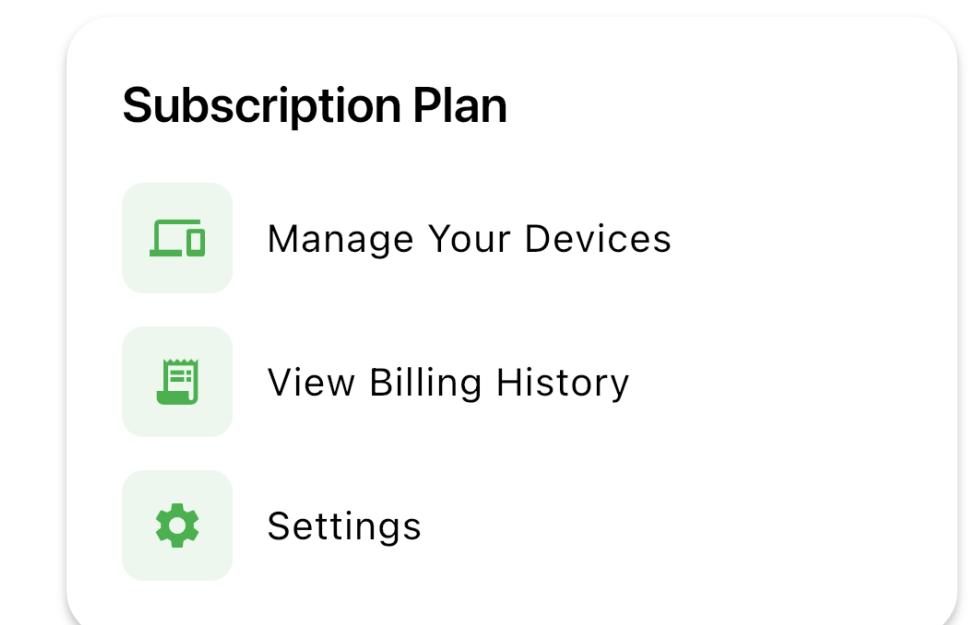
# Vibe coding

20:10



## Welcome to NOMAD

Experience the future of smart home connectivity with our Pro subscription plan and device package.



Get Started

Logout

Over 20min of generating files

iOS issues

flutterfire configure

# Vibe coding task



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Address  
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Email  
a.kowalska@gmail.com

**1 Personal details**

**Checkout**

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Enter your surname

Email  
Enter your email

Phone(optional)

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Nomad package	120\$
"Pro" plan	79\$
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[Edit](#)

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Wrocław, Poland

Full name  
Anna Kowalska

Email  
a.kowalska@gmail.com

**2. Payment details**

Enter your card details

Card number  
1111 2222 4444 5555

End date  
01/26

CVC/CVV  
123

Name on the card  
Anna Kowalska

**Continue**

**3 Create account**

**Create account**

Your plan **Pro**  
79\$/month

**3. Create account**

Fill the form to create an account

Add photo +

**Personal data**

Name  
Enter your name

Surname  
Enter your surname

Email  
Enter your email

Phone(optional)  
XXX-XXX-XXX

Address

Country  
Enter your country

Region  
Enter your region

[Edit](#)

**3 Create account**

**Create account**

Your plan **Pro**  
79\$/month

**3. Create account**

Fill the form to create an account

Add photo +

**Personal data**

Name  
Enter your name

Surname  
Enter your surname

Email  
Enter your email

Phone(optional)  
XXX-XXX-XXX

Address

Country  
Enter your country

Region  
Enter your region

**Create an account**

**3 Create account**

**Create account**

Your plan **Pro**  
79\$/month

**3. Create account**

You're almost set. Set your password and create the account.

New password  
Enter your password

Repeat new password  
Enter your password

**Create an account**

[Edit](#)

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Claude 4 sonnet

20:11

← NOMAD

1 Personal details    2 Payment    3 Create account

## Checkout

### Device & plan details

Nomad package includes:

- One hub
- One plug
- Instruction manual

"Pro" plan includes:

- First feature
- Second feature
- Third feature

### 1 Shipping details

Enter the address where you'd like to receive your Nomad package

Name

Enter your name

Surname

20:10

← NOMAD

1 Personal details    2 Payment    3 Create account

### Country

Enter your country

### Region

Enter your region

### City

Enter your city

### Postal code

Enter your postal code

### Address

Enter your address

Continue

20:12

← NOMAD

1 Personal details    2 Payment    3 Create account

### ✓ Shipping details

Edit

Nomad package will be sent to:

test  
test, test  
test

Full name  
test test

Email  
test@test.test

### 2 Payment details

Enter your card details

#### Card number

1111 2222 4444 5555

#### End date

01/26

#### CVC/CVV

123

#### Name on the card

Anna Kowalska

# Vibe coding



Claude 4 sonnet

20:12      DEBUG

← **NOMAD**

✓ — ✓ — 3

Personal details      Payment      Create account

### Create account

Your plan      Pro 79\$/month

3 Create account  
Fill the form to create an account

+ Add photo

Personal data

Name: test

Surname: test

Email: [redacted]

3 Create account  
You're almost set. Set your password and create the account.

New password: [redacted]

Repeat new password: [redacted]

Identifier	Providers	Created ↓	Signed in	User UID
test@test.test	✉️	15 Jun 2025	15 Jun 2025	8Q01XLpaBue48LWncdBz5cK...

Vibe coding



# Vibe coding

Claude 4 sonnet

Took again 20mins



# Vibe coding

Claude 4 sonnet

- main.dart still is a counter app
- No new UI pages
- Used class names are not existing



# Scoreboard

	Features	Add pagination	`VibeCodingness`
<b>Copilot</b>	7	5	
<b>Gemini Code Assist</b>	4	1	
<b>Tabnine</b>	6	1	
<b>Blackbox AI</b>	8	10	6
<b>Windsurf</b>	6	5	
<b>Cursor</b>	7	9	8
<b>Trae</b>	6	8	-1

# Disclaimer

- I have chosen only dev assisting tools
- MCP is a beast, spend some time to tame it
- If you are AI hater, accept it - its going to stay

# My thoughts

- Cursor ❤
- MCP is game changer
- I was surprised how big the difference is.
- Follow AI scene

# My thoughts

- Cursor ❤
- MCP is game changer
- I was surprised how big the difference is.
- Follow AI scene

Thank you

[https://github.com/Jan-Stepien/ai\\_comparison\\_25](https://github.com/Jan-Stepien/ai_comparison_25)



<https://www.linkedin.com/in/jan-stepien-developer/>

**Thank you**