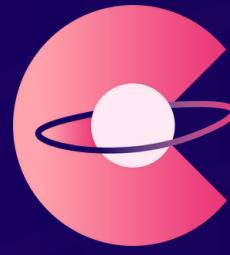


*Where Every Book Is a New Galaxy.*



Meet the presenter!

# Mohammad Zidane Kurnianto

## Education

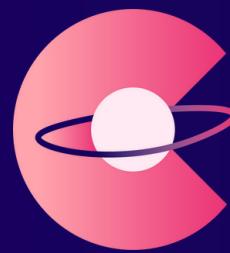
- SMAS Cendana Mandau (2022 s.d. 2025)
- Universitas Indonesia (2025 s.d. Sekarang)  
Fakultas Ilmu Komputer, Program Studi S1 Sistem Informasi

## Awards

- Peringkat 1 OSN 2024 Tingkat Kabupaten Cabang Informatika
- Peringkat 1 FLS2N 2024 Tingkat Provinsi Cabang Gitar Solo
- Peringkat 2 FLS2N 2023 Tingkat Provinsi Cabang Gitar Solo

@mohzidane\_k

zikapedia.my.id



# Past Projects

## websitelaunch.

Zikapedia adalah website pribadi saya sekaligus **projek perdana** saya dalam menggunakan React, Tailwind CSS, dan TypeScript sebagai langkah awal mengasah keterampilan di bidang **Front-End Development**.

[zikapedia.my.id](http://zikapedia.my.id)



## Zikapedia

Portfolio website showcasing recent projects and achievements. Made with Typescript, React, and Tailwind.



## ARUNG 25 Site

Contributed to the front-end development of the Class of 2025 website for the Faculty of Computer Science, Universitas Indonesia.

amat malam, **Zika**!

Tanggal: 5/7/2024

Tempat: Netral

Harga: Rp**100000**

Kampus Impian: Universitas Indonesia

Tahun 2025 **H-292**

Apakah yang ingin Anda lakukan hari ini?

Belajar Materi SNBT (**+Kemampuan**)

Tryout (**Rp30.000**)

Riset Kampus Impian

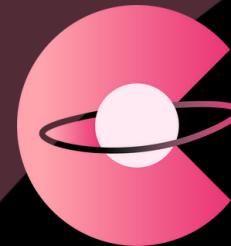
Rekreasi (**+Mood**)

Pergi ke Toko

Beli Duit (**+Uang**)

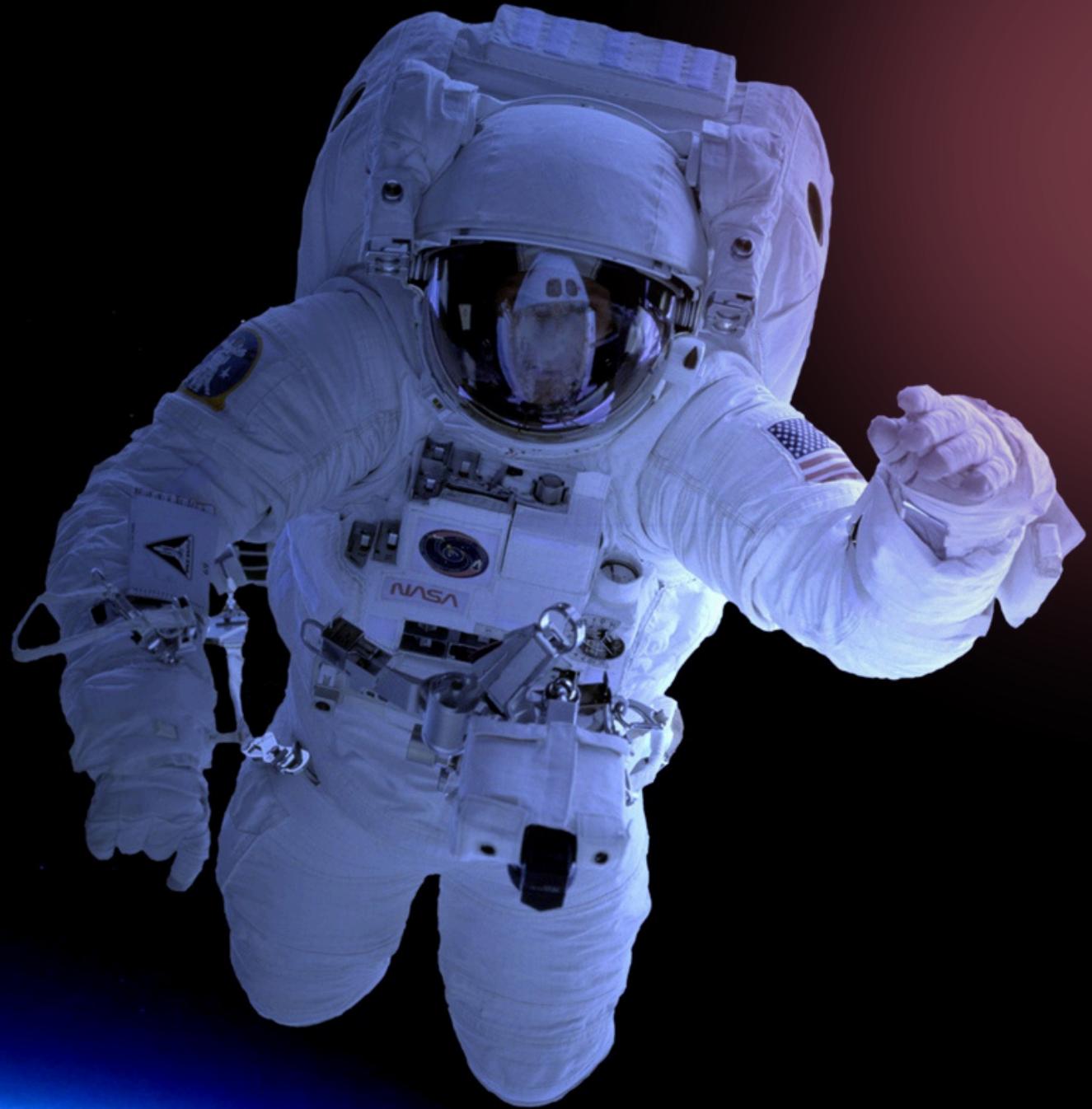
## SNBT Master

A text-based RPG game written entirely in the C++ language, focused on improving time management for SNBT-UTBK 2025 preparation.



# A Harsh Truth

Indonesia's reading proficiency  
scored only 359 in PISA 2022,  
**significantly below the global  
average.**



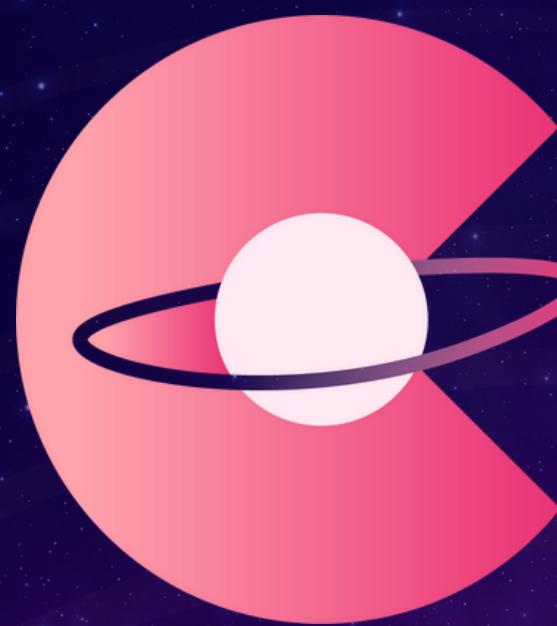
Source: Organisation for Economic Co-operation and Development (2022)



Young people scroll endlessly,  
**but read less than ever.**

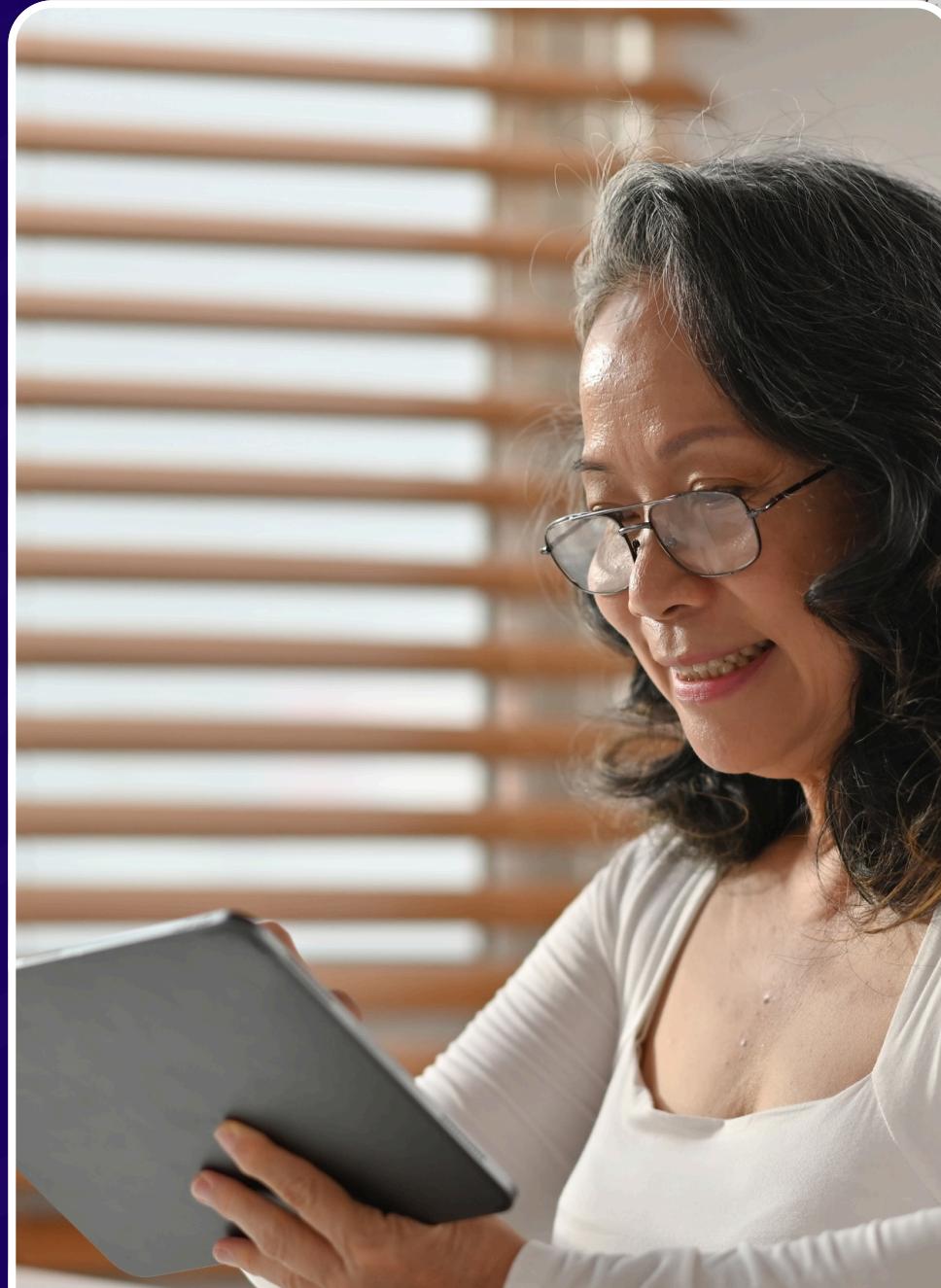


Introducing...

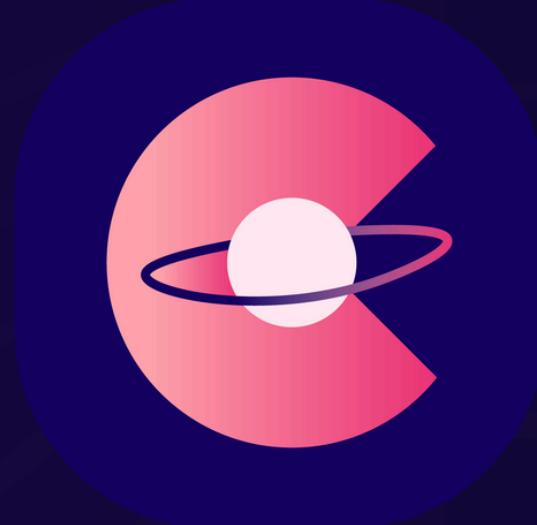


# Codexia

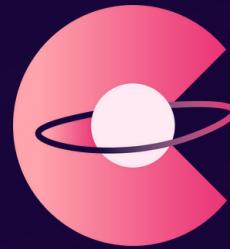




# What is Codexia?

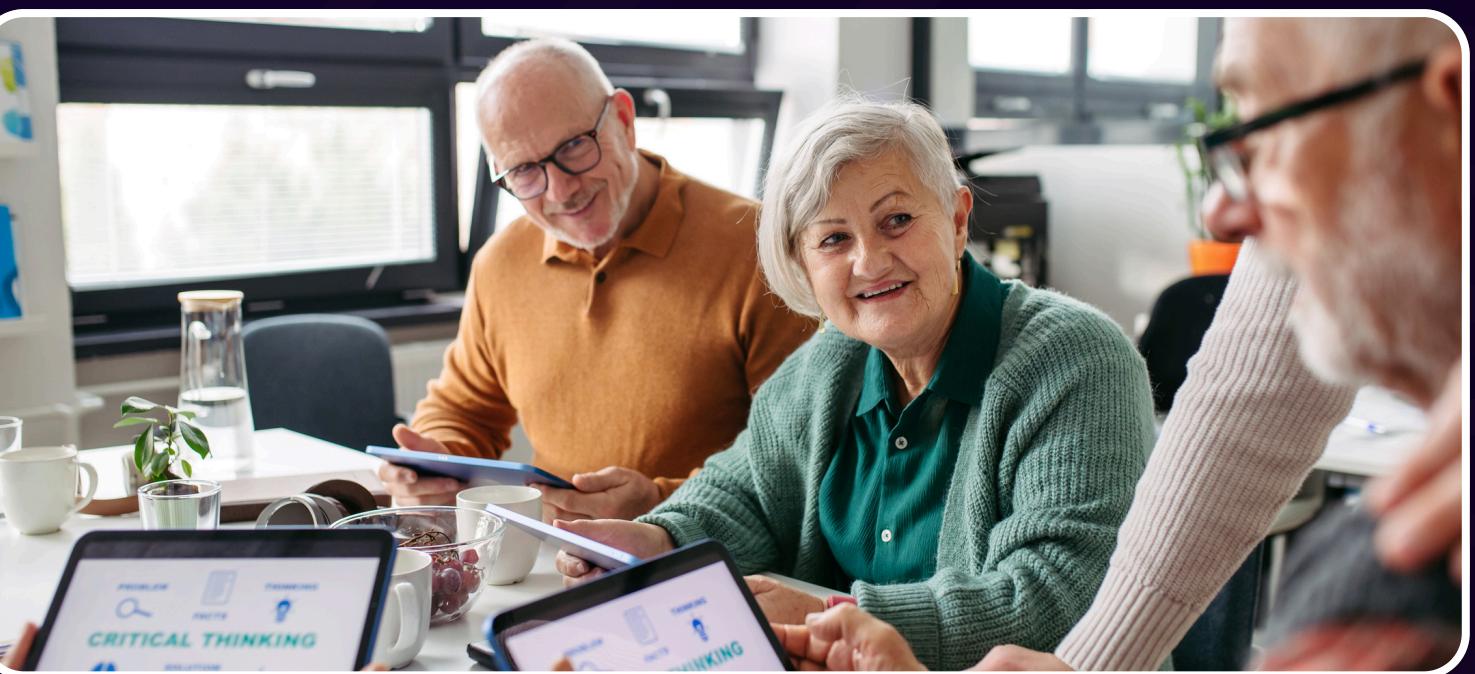
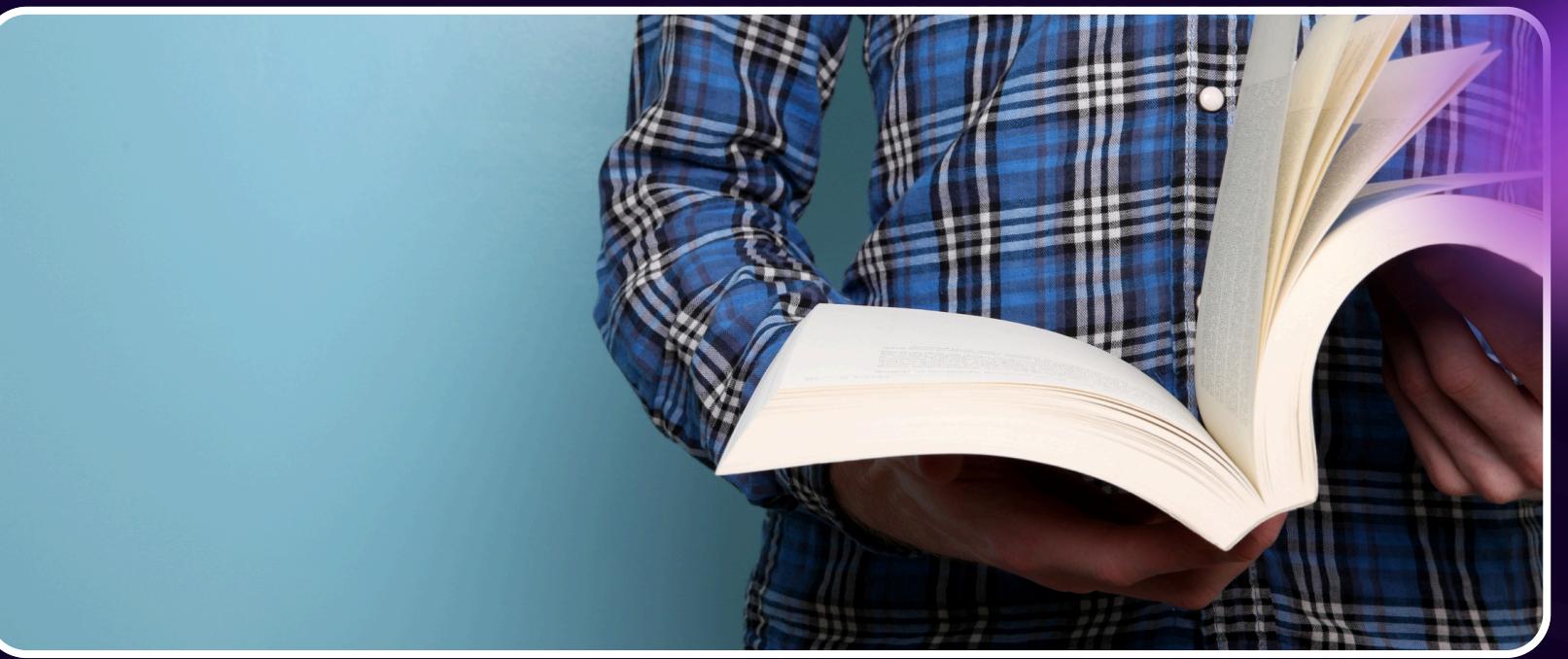


Codexia is a mobile application created to encourage reading habits among the audiences by transforming how they discover, choose, and rent books. The app focuses on helping users transition from passive content consumption to more meaningful reading habits.



# Why Codexia?

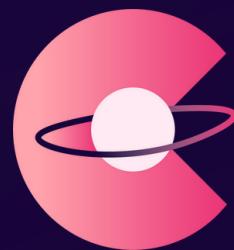
- People are increasingly exposed to fast, short-form digital content.
- Reading books requires higher effort, structure, and commitment.
- Existing reading platforms often lack simplicity for new readers.





**Codexia helps people rediscover reading by turning book exploration into an intuitive digital experience.**





# Target Users



YOUNG READERS

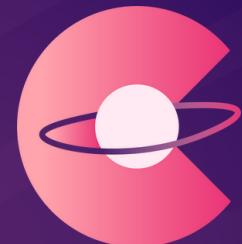


STUDENTS



DIGITAL-NATIVE USERS WHO WANT  
TO BUILD READING HABITS

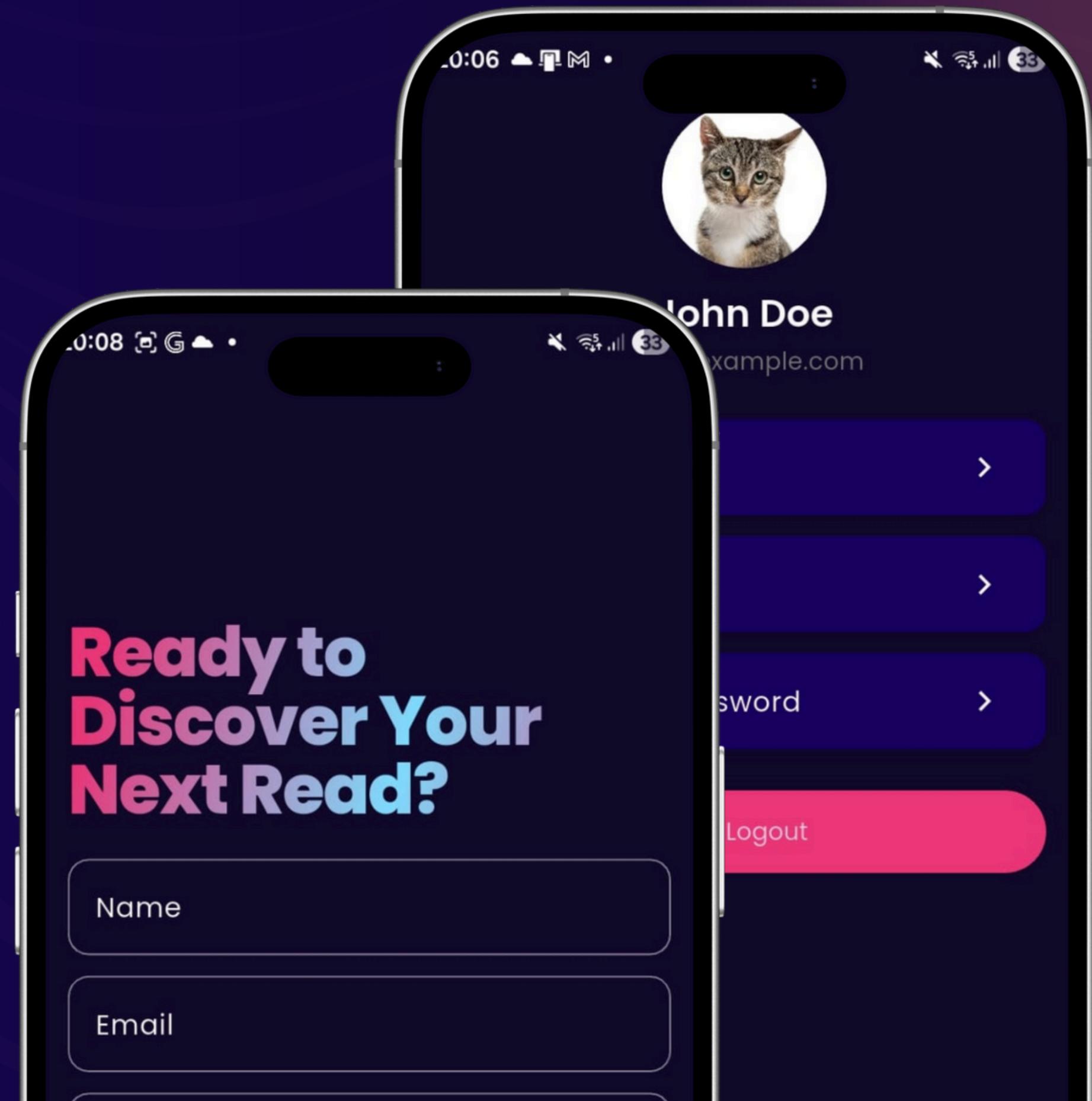
# So, what are the **key features** of Codexia?



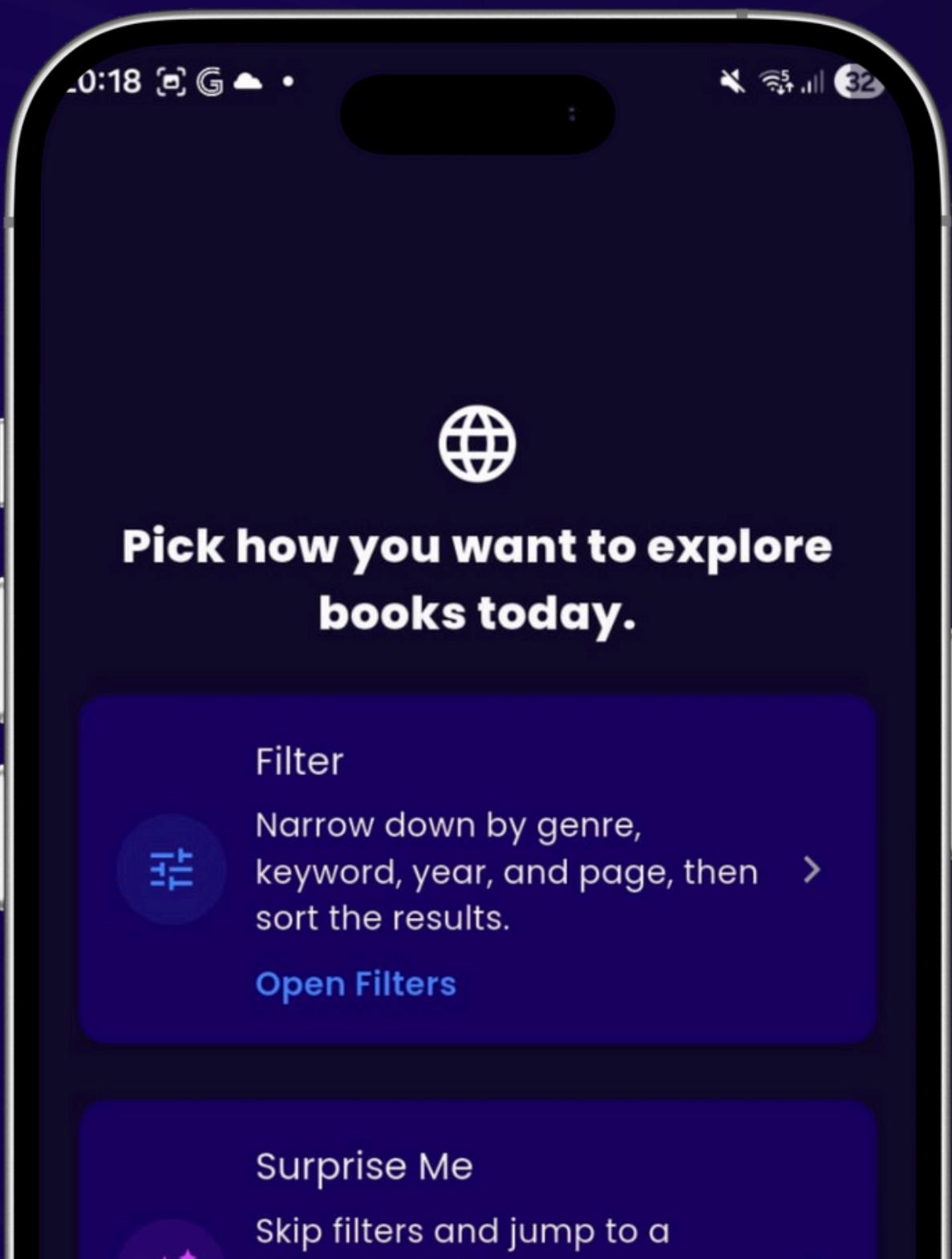
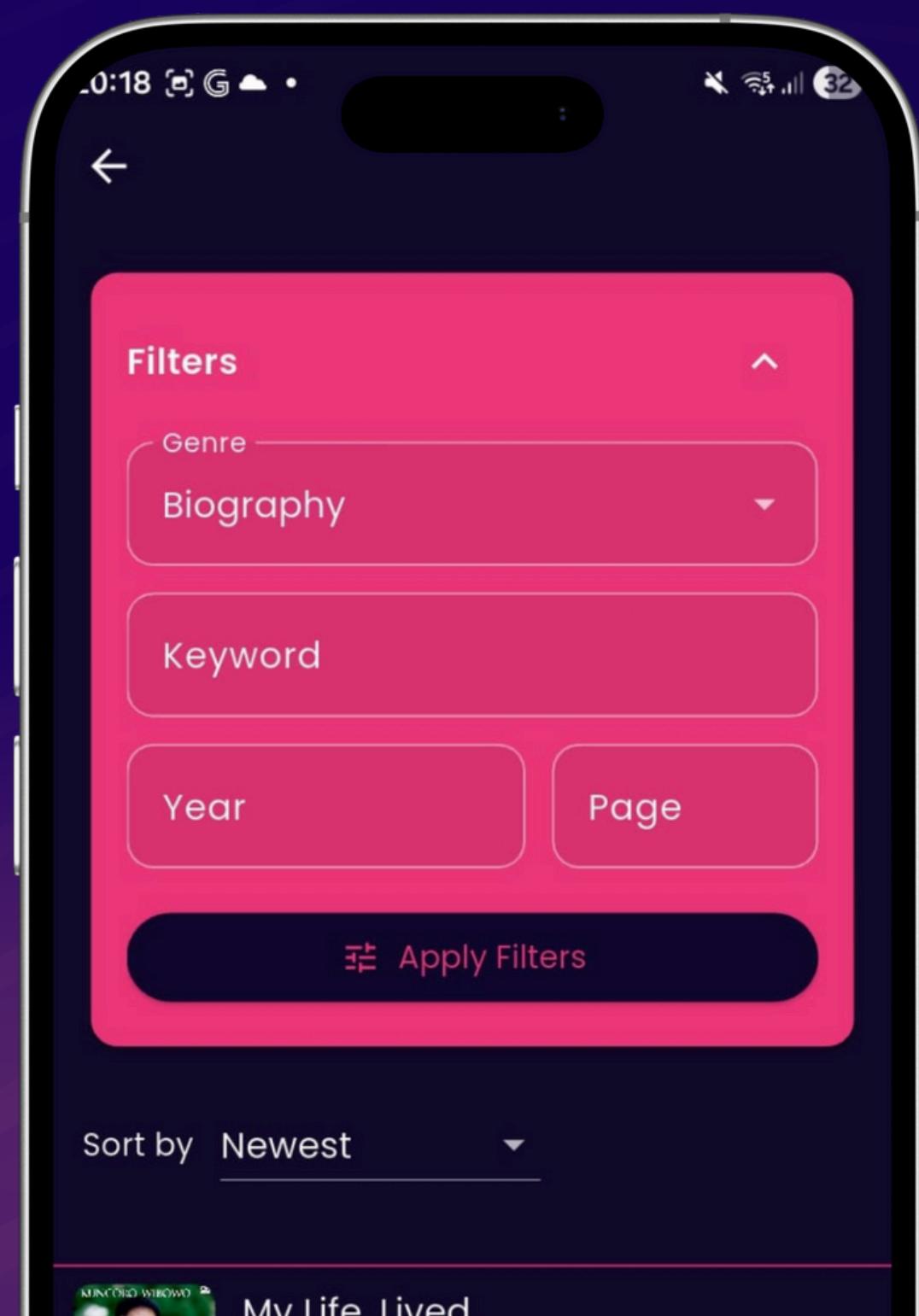


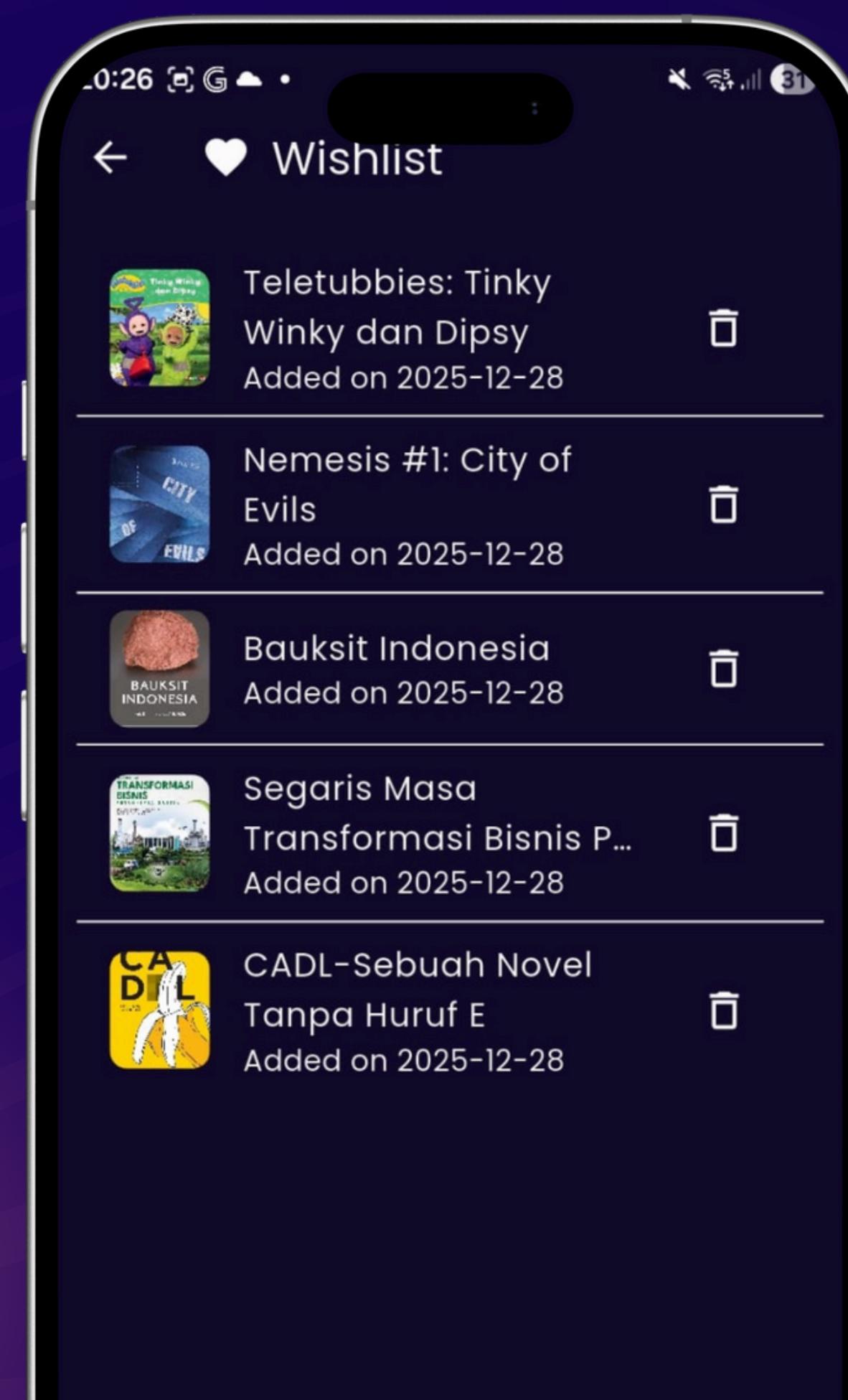
# Secure Registration & Personalization

Powered by:



# Two Intuitive Methods to Discover Books!





Save books for future reading  
or rental with the

# Wishlist Feature

Powered by:



# Rent Books You Love!



The image displays two screenshots of a mobile application interface for book rental.

**Screenshot 1: Book Details**

Top status bar: 0:31, signal strength, battery level 31%.

Text: Buku Berjendela:  
Yuk, Tebak! Dinos...  
Due: 2025-12-29  
1 day(s) • Rp 5.000

Buttons: Return, Active

**Screenshot 2: Rent Book**

Top status bar: 0:31, signal strength, battery level 31%.

Text: Rent Book

Book cover: PATIWANGI by Oka Rusmini, Category: Poetry

Text: Select duration (days) 5 day(s)

Slider: A horizontal slider with a pink dot indicating the selected duration of 5 days.

Text: Price per day Rp 5.000  
Duration 5 day(s)

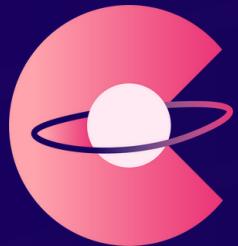
Text: Total to pay Rp 25.000

Buttons: Confirm Rent, Rent again, #1: City

The second screenshot shows a modal or overlay with the same book details and a return button.

# Let's Get Technical.





# The User Flow



User

Presentation

Riverpod

Data

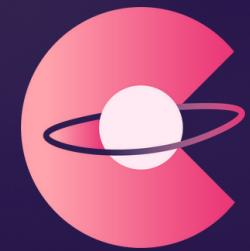
Firebase



# Packages & Libraries

- firebase\_core ^4.3.0
- dio ^5.9.0
- firebase\_auth ^6.1.3
- cloud\_firestore ^6.1.1
- flutter\_riverpod ^3.0.3
- riverpod\_annotation ^3.0.3
- flutter\_svg ^2.2.3
- google\_nav\_bar ^5.0.7
- url\_launcher ^6.3.0
- flutter\_animate ^4.5.2
- flutter\_native\_splash ^2.4.7
- flutter\_launcher\_icons ^0.14.4





# Development Timeline

## 1. Sanity Testing & API Validation

Validated backend readiness by directly hitting APIs and reviewing responses through a lightweight prototype application.



## 2. Design Planning & UI/UX Foundation

Defined the overall design direction of Codexia, including typography and color palette, Logo and visual identity, and UI/UX design.

### **3. Data Layer Implementation**

Built the core data infrastructure by configuring Firebase services, implementing service and repository layers, and structuring data models for maintainability.

### **4. Global Components & Styling**

Developed essential reusable components and global styling, such as common widgets and themeData.

### **5. Presentation Layer & State Management**

Implemented the presentation layer by configuring Riverpod for state management building UI screens based on user flow, and connecting UI with business logic through state providers.

## **6. Polishing & UX Refinement**

Refined animations, spacing, typography, and interaction details to improve usability and visual clarity.

## **7. Testing & Stability Checks**

Performed functional testing to validate core user flows, data consistency, and error handling.

## **8. Documentation**

Documented architecture decisions, development flow, and releasing builds.

Scan to Check Out  
Repository





## Feature cuts due to API limits

Planned “Ask Dex” personalized recommender needed richer endpoints, while the API only features basic filters/random. The problem is handled by simplifying the application.

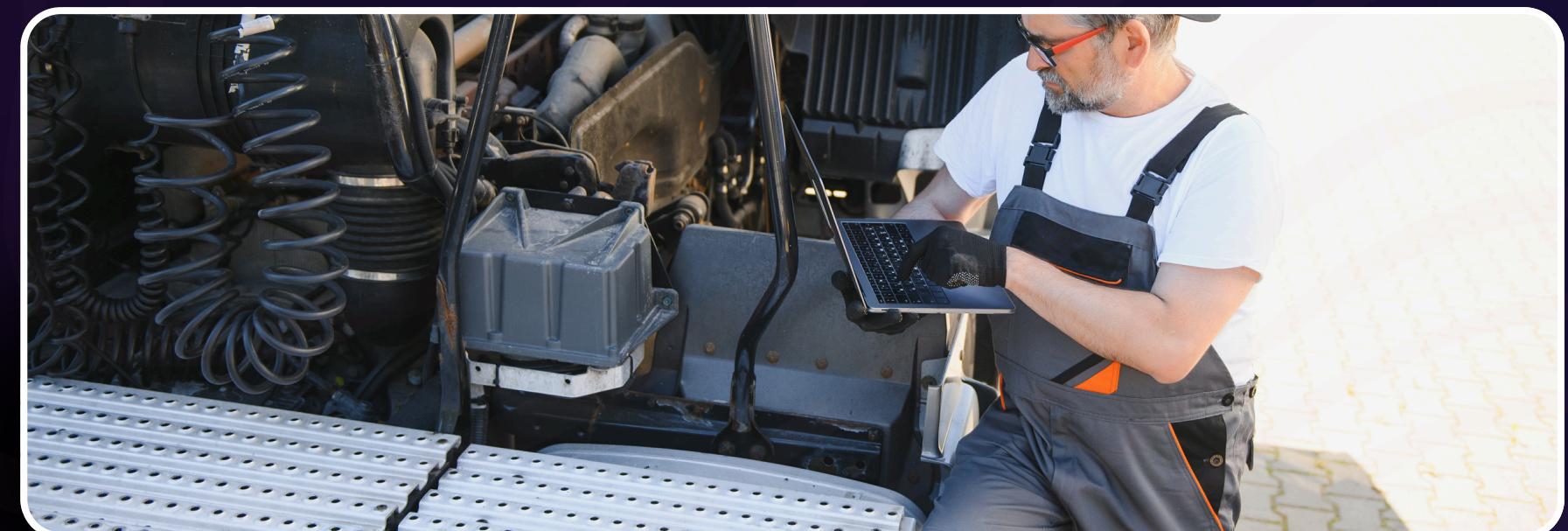
**Lesson:** Align application features with API capabilities early.

# Technical Difficulties

## HTTP Image Failures

Many books from the API have broken cover URLs surfaced as errors. The problem is handled with fallbacks to avoid crashes/ugly text.

**Lesson:** Always prepare when dealing with remote assets.

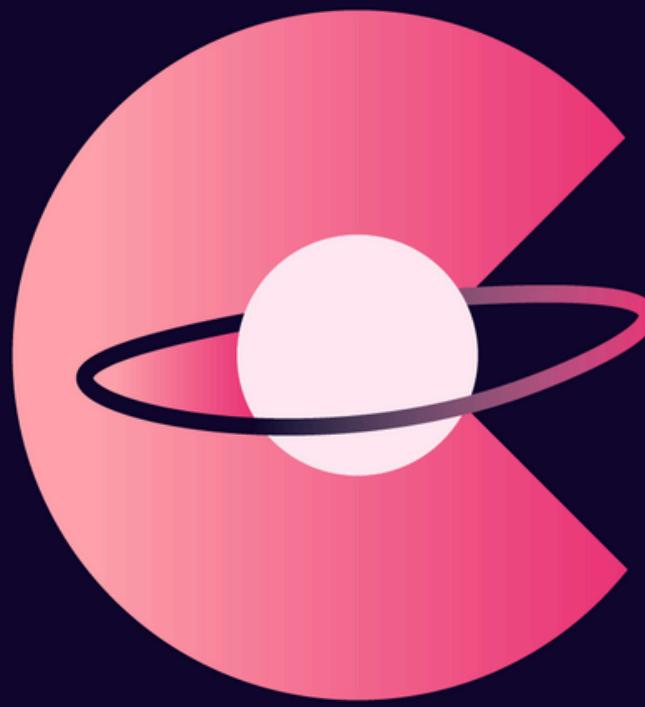




January 2026

# Thank You for your attention!





# Codexia Design Guide



A stylized signature in black ink that reads "Dark" above "ver. 22/12/2025".

ver. 22/12/2025

## Font: Poppins

*Medium*

*Light*

*Regular*

*SemiBold*

*Bold*

*ExtraBold*

*Black*

*ExtraBlack*

*BrickRed*

*DarkBlue*

*LightPink*

*White*

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