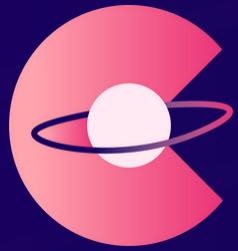


Where Every Book Is a New Galaxy.



Meet the presenter!

Mohammad Zidane Kurnianto

Education

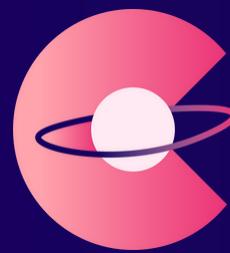
- SMAS Cendana Mandau (2022 s.d. 2025)
- Universitas Indonesia (2025 s.d. Sekarang)
Fakultas Ilmu Komputer, Program Studi S1 Sistem Informasi

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



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

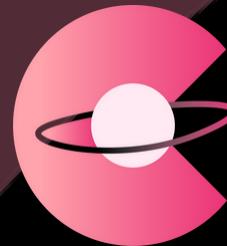
Rekreasi (**+Mood**)

Pergi ke Toko

Beli Duit (**+Uang**)

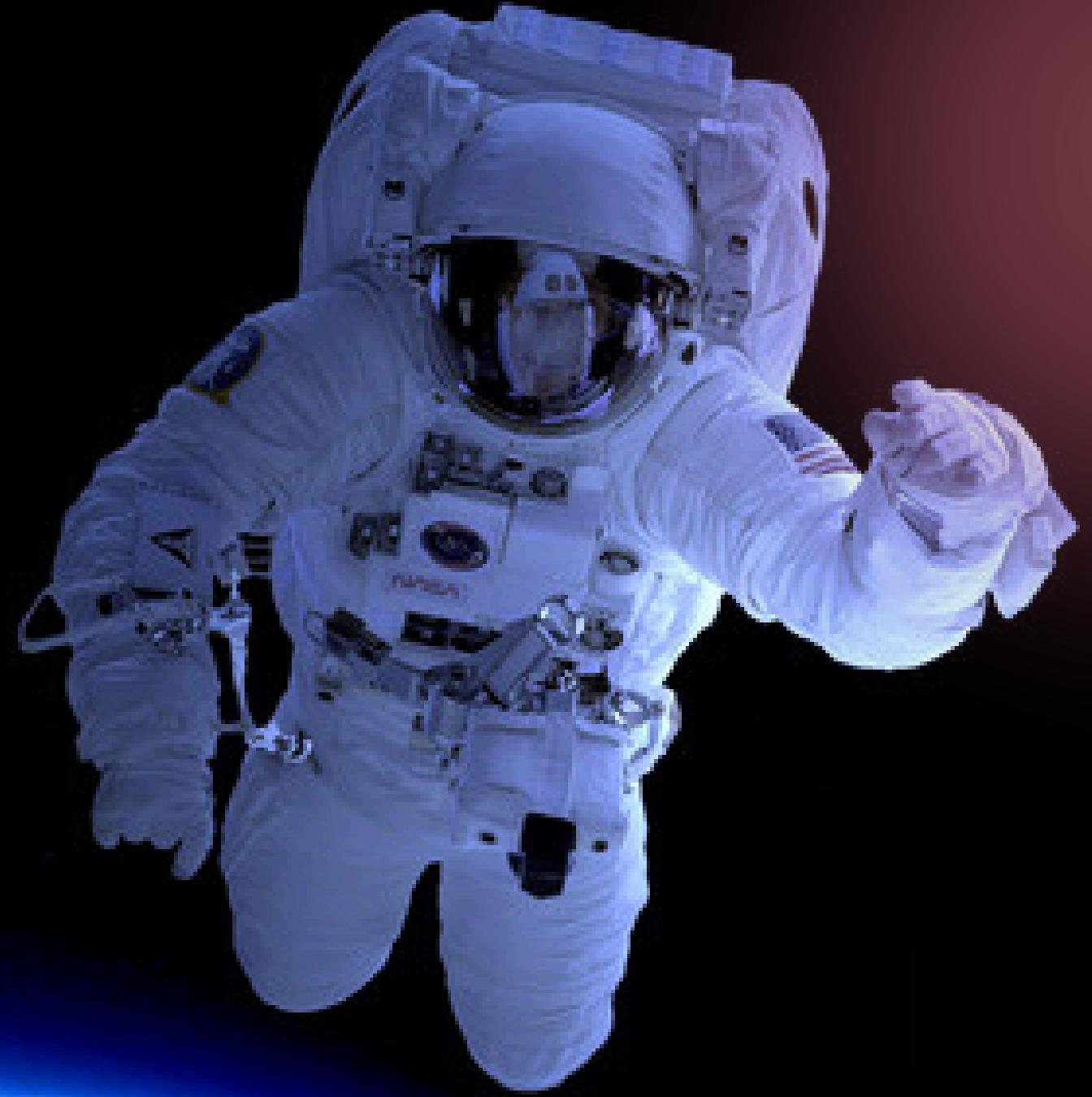
SNBT Master

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.**



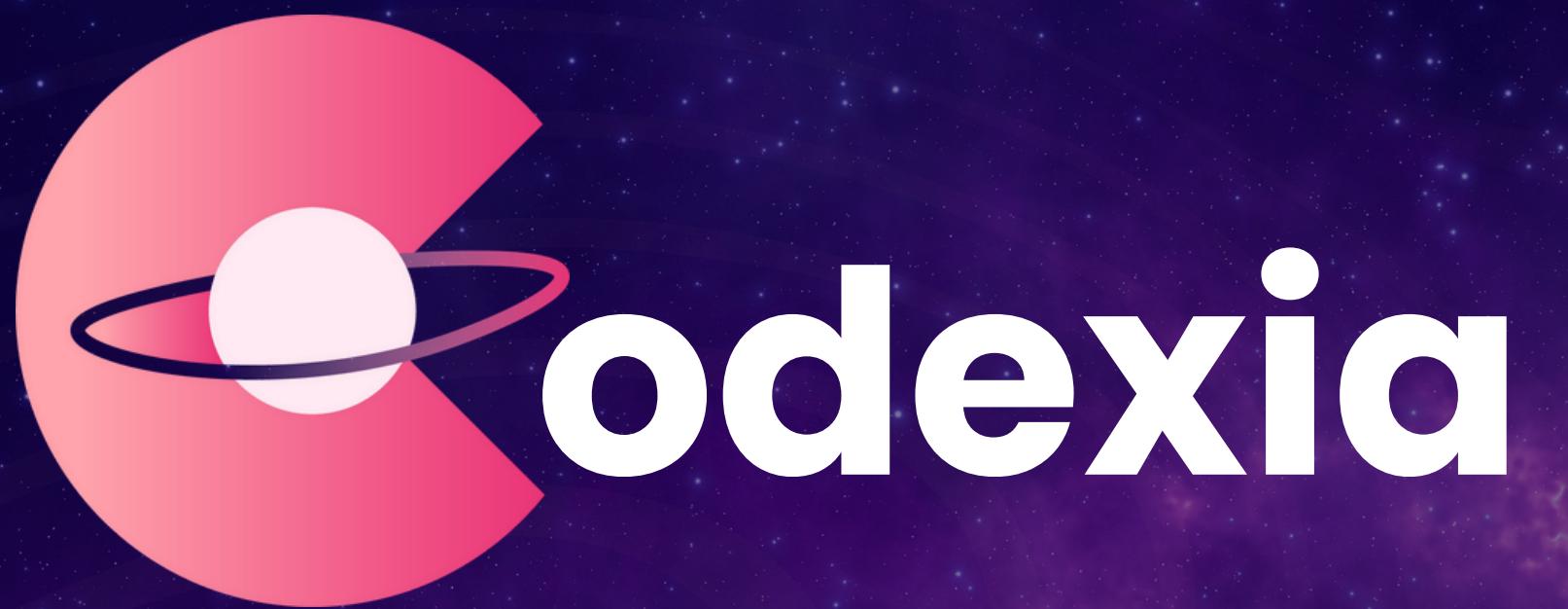
Source: Organisation for Economic Co-operation and Development (2022)

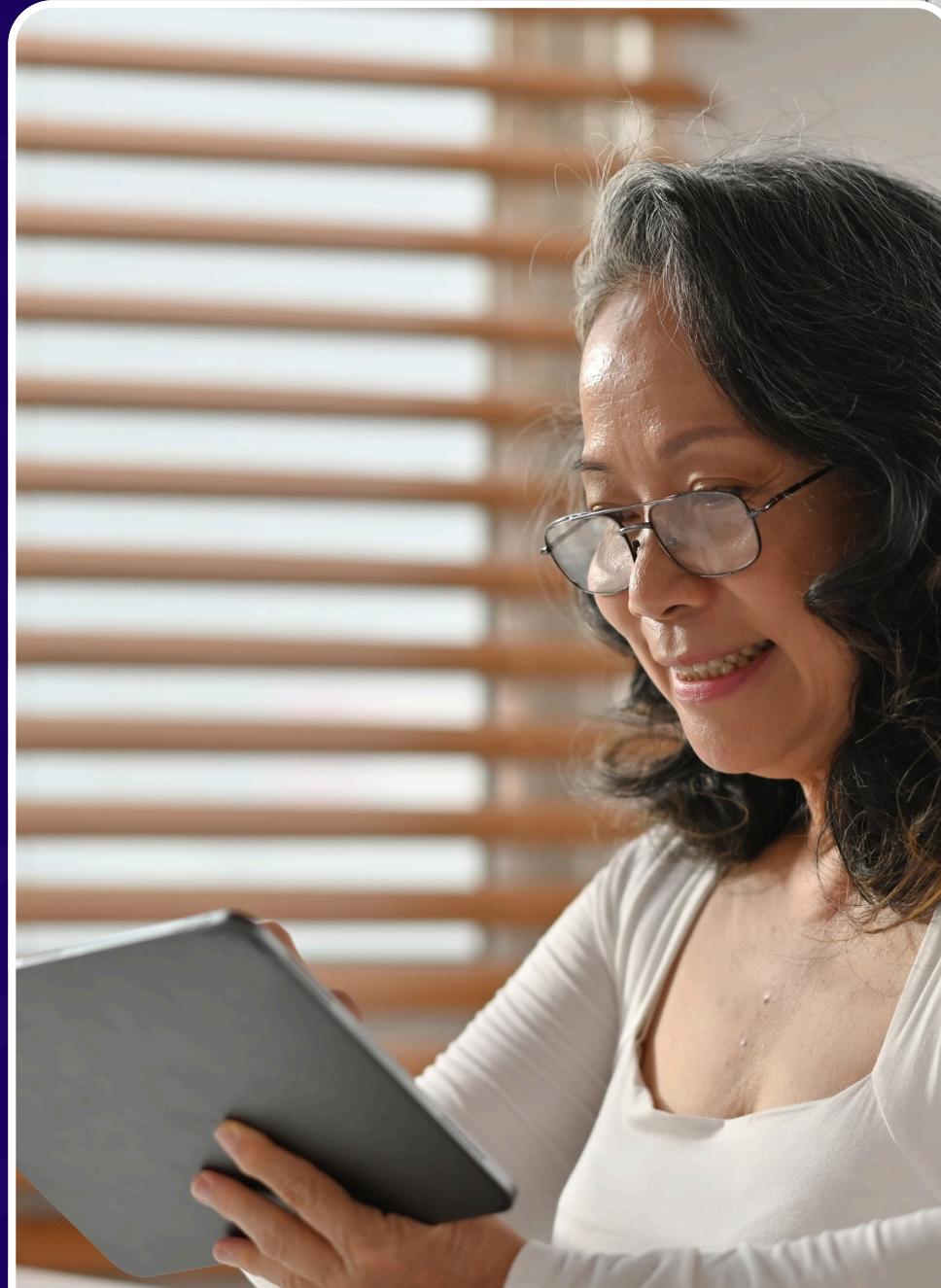


Young people scroll endlessly,
but read less than ever.



Introducing...

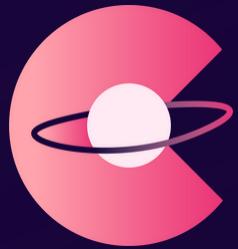




What is **Codexia?**

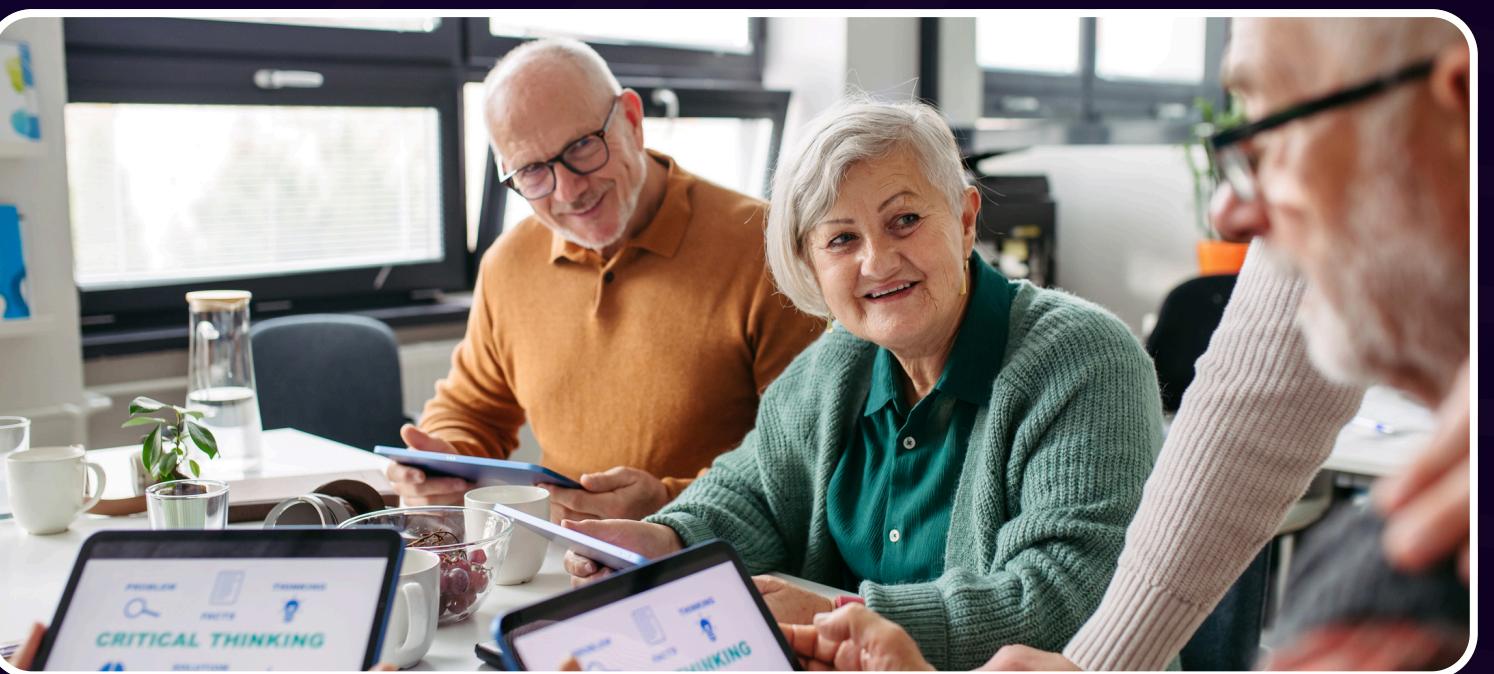
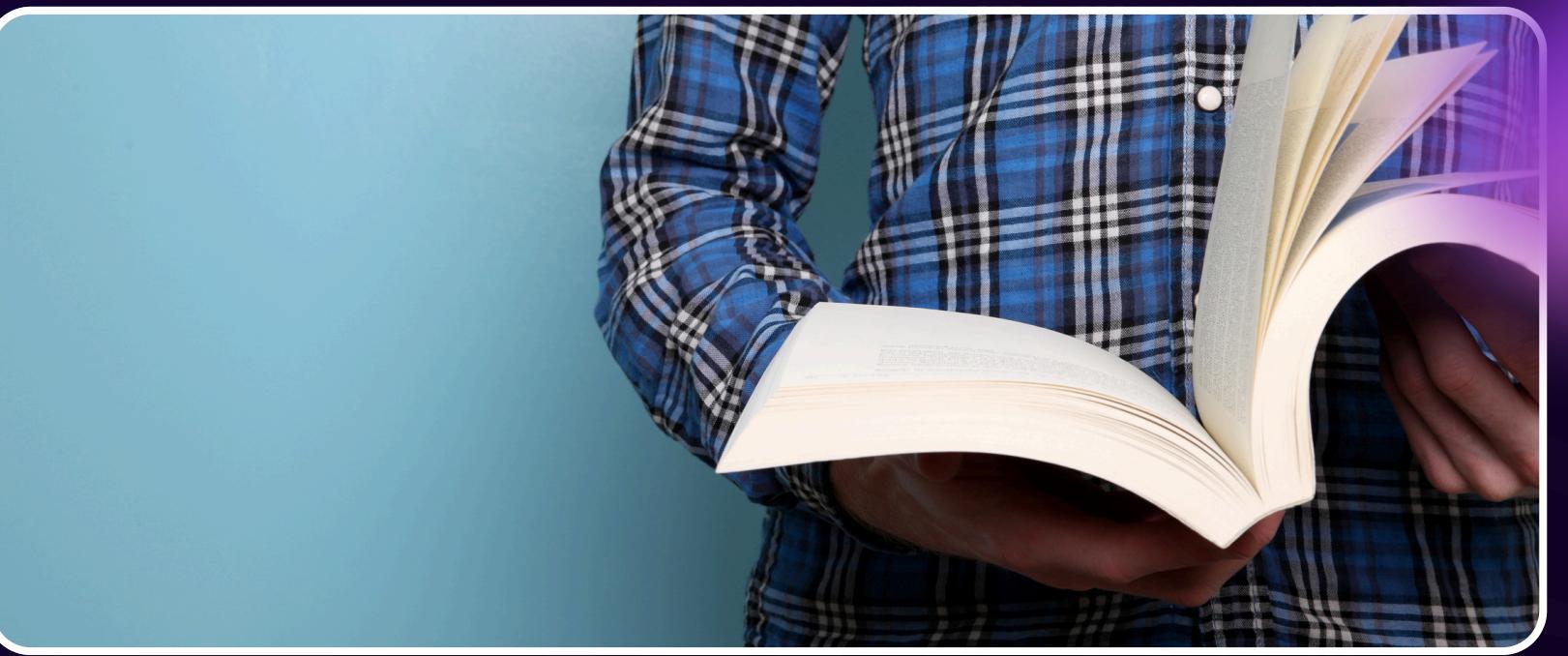


Codexia is a mobile application created to encourage reading habits among the audiences by transforming how they discover, choose, and rent books. The app focuses on helping users transition from passive content consumption to more meaningful reading habits.



Why Codexia?

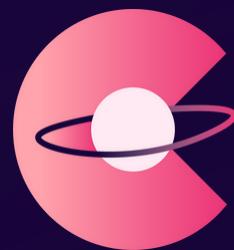
- People are increasingly exposed to fast, short-form digital content.
- Reading books requires higher effort, structure, and commitment.
- Existing reading platforms often lack simplicity for new readers.





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

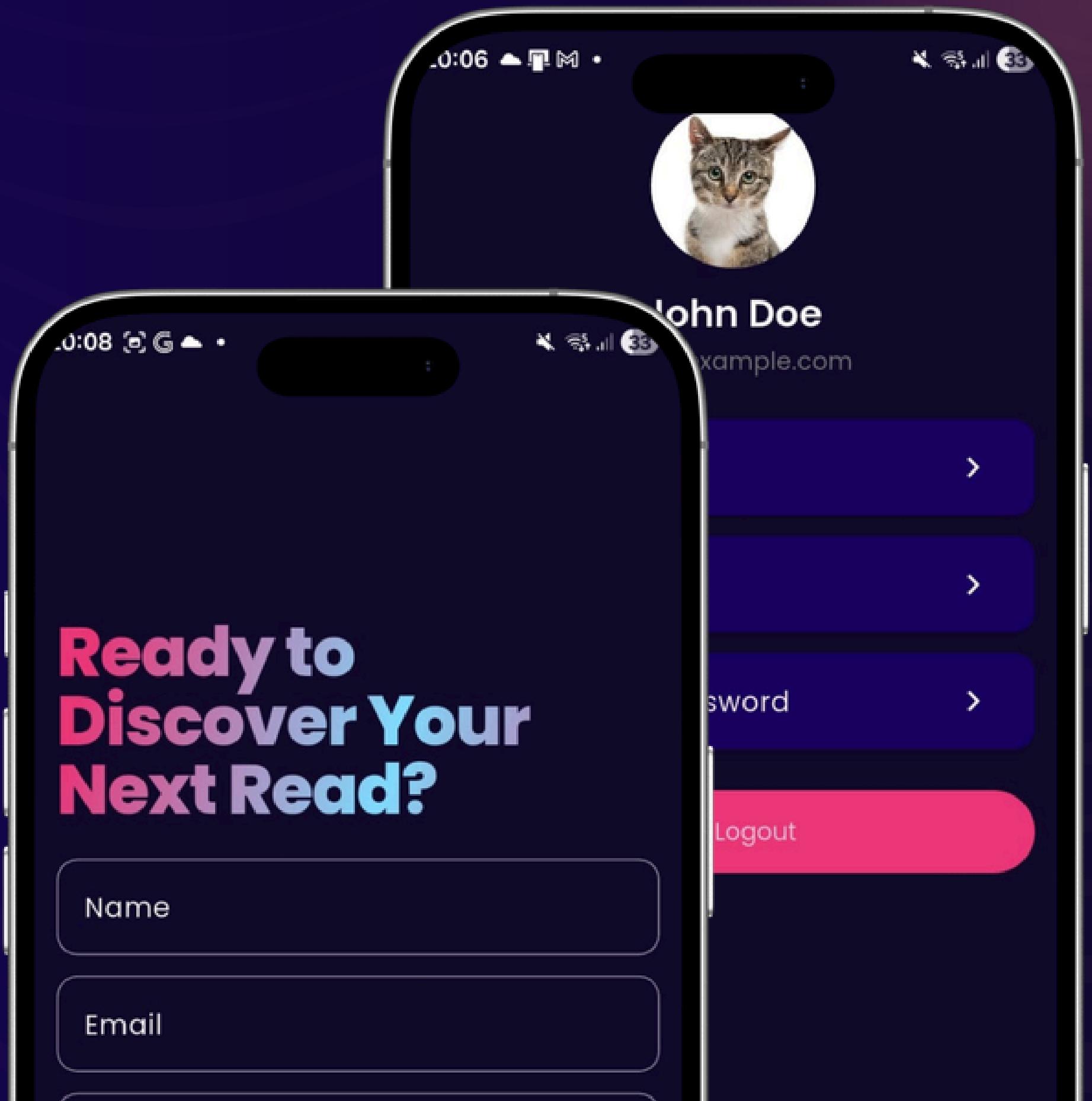
So, what are the **key features** of Codexia?



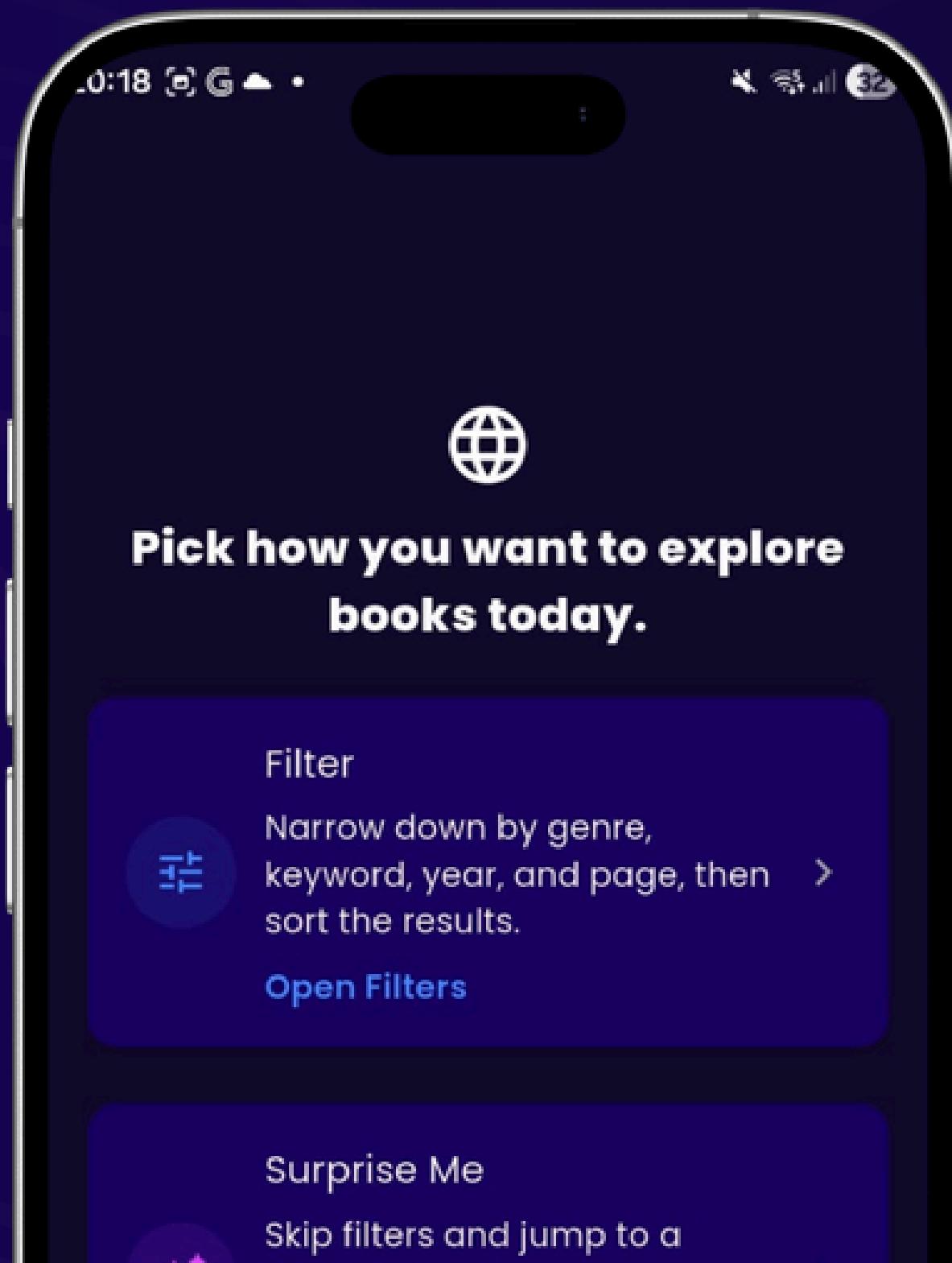
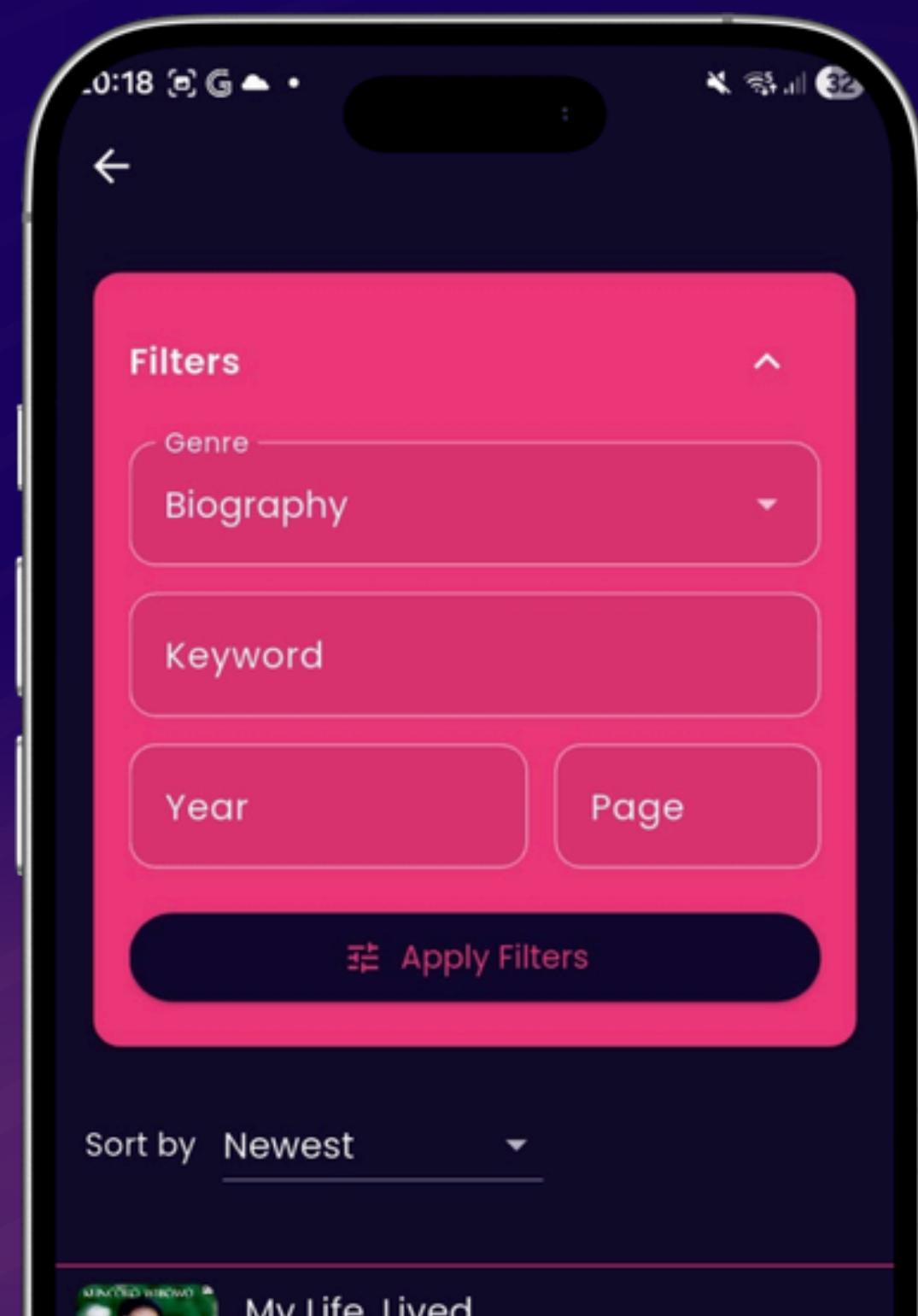


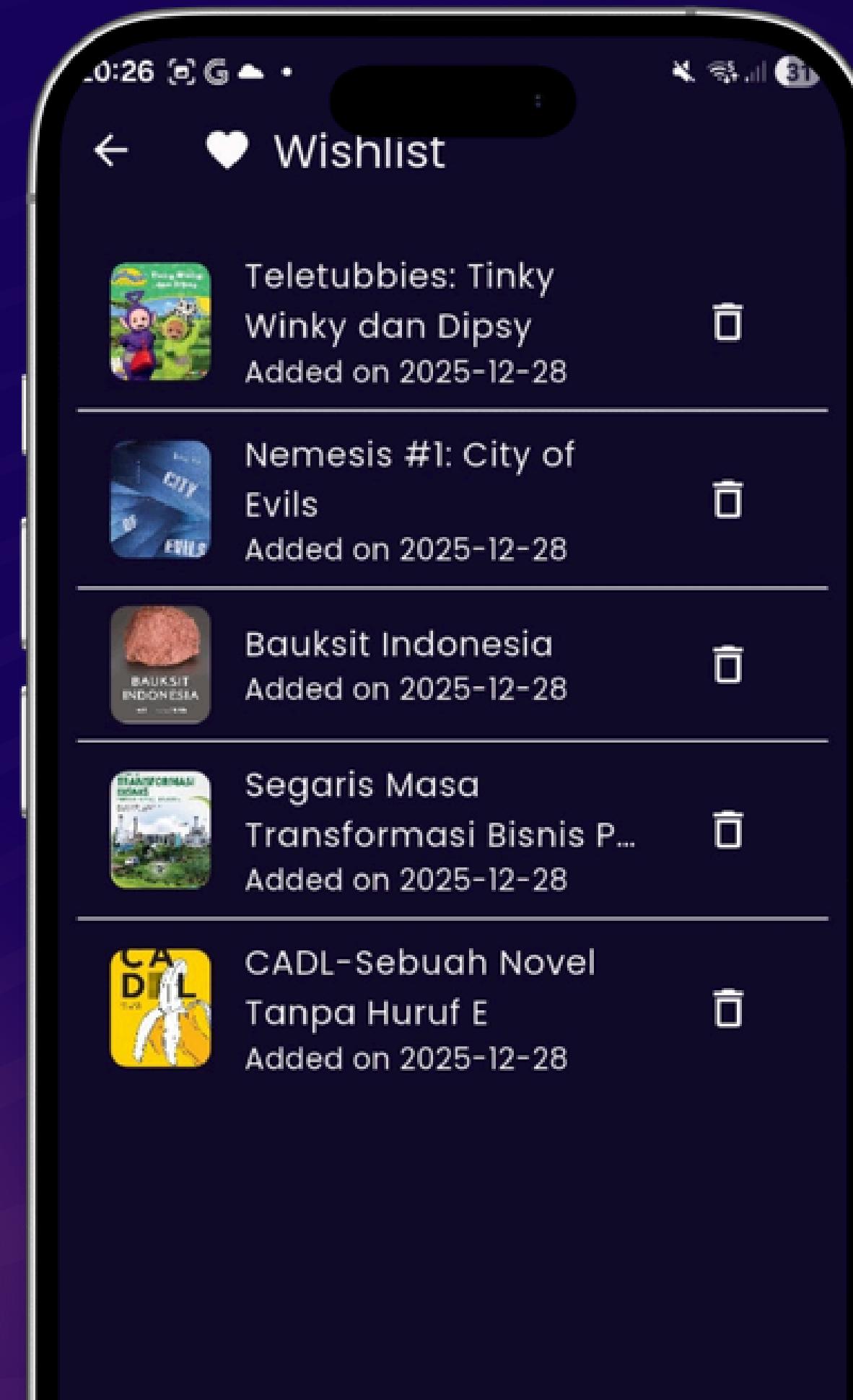
Secure Registration & Personalization

Powered by:



Two Intuitive Methods to Discover Books! ✨





Save books for future reading
or rental with the
**Wishlist
Feature**

Powered by:



Cloud
Firestore

Rent Books You Love!



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

Screenshot 1: Book Details

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

Bottom left: Rent Book screen for "PATIWANGI" by Oka Rusmini, Category: Poetry.
Select duration (days): 5 day(s)
Price per day: Rp 5.000
Duration: 5 day(s)
Total to pay: Rp 25.000
Confirm Rent button

Screenshot 2: Available Books

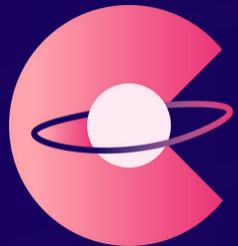
GI
01-02
25.000
Return

15.000
#1: City
Rent again

35.000
#1: City
Rent again

Let's Get Technical.





The User Flow



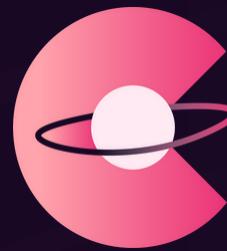
User

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.

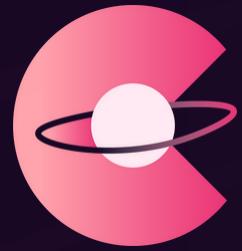


8. Documentation

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.

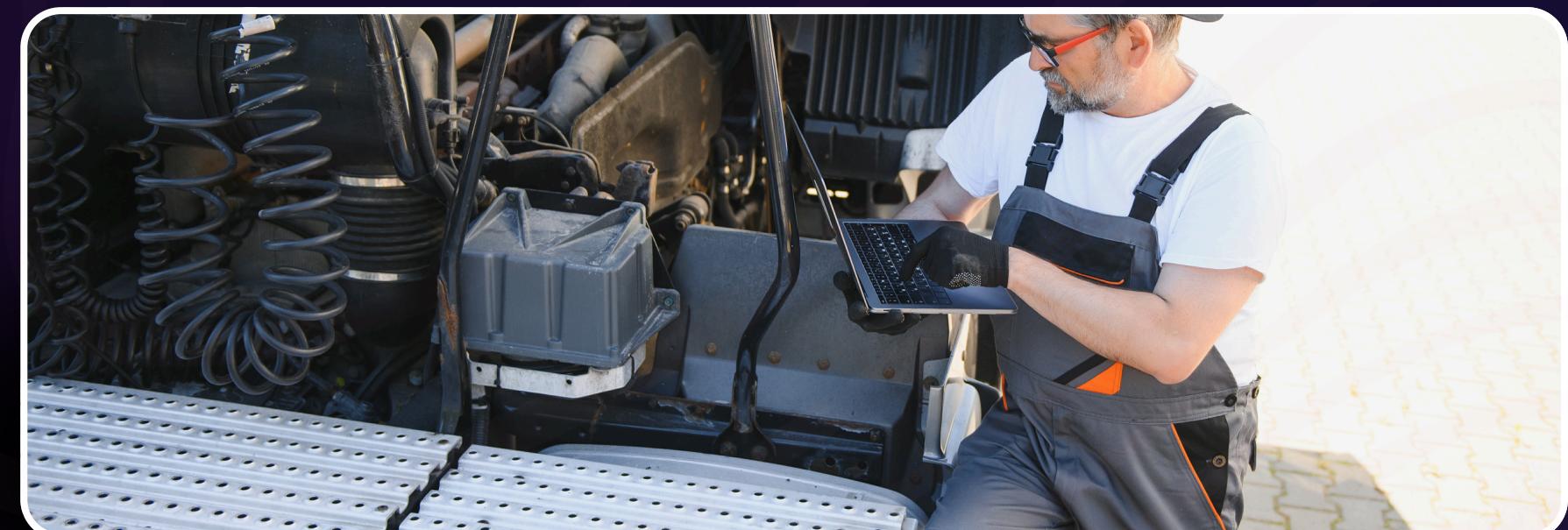
Lesson: Align application features with API capabilities early.

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.

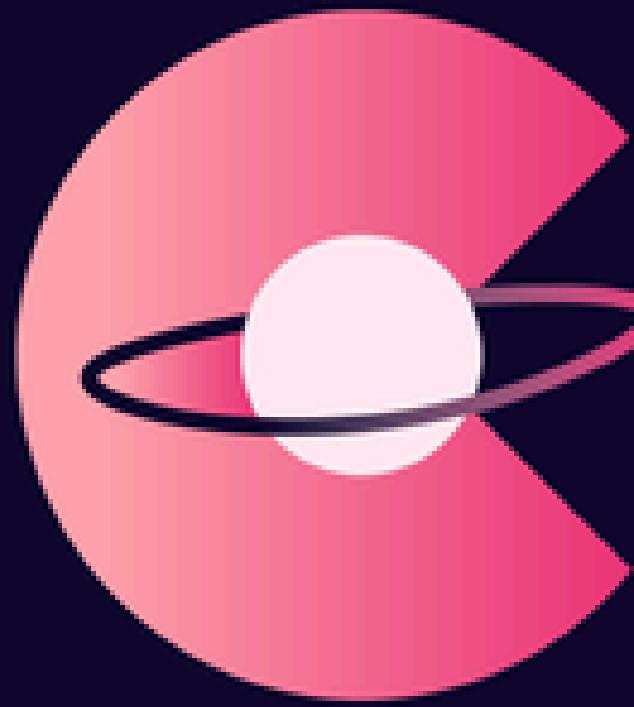




January 2026

Thank You for your attention!





Codexia Design Guide

Dark
ver. 22/12/2025

Font: Poppins

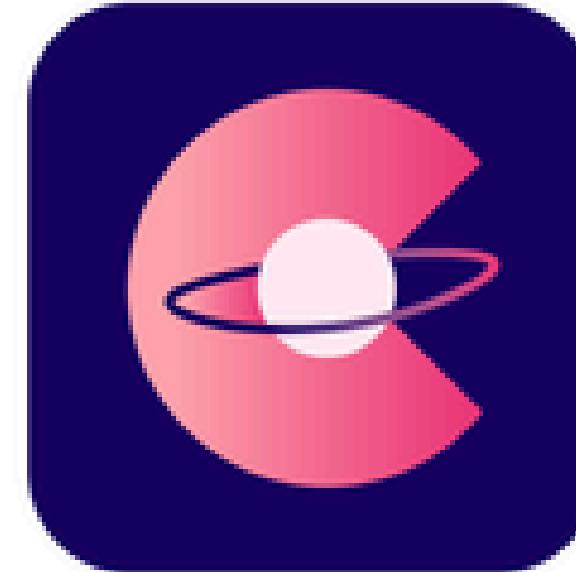
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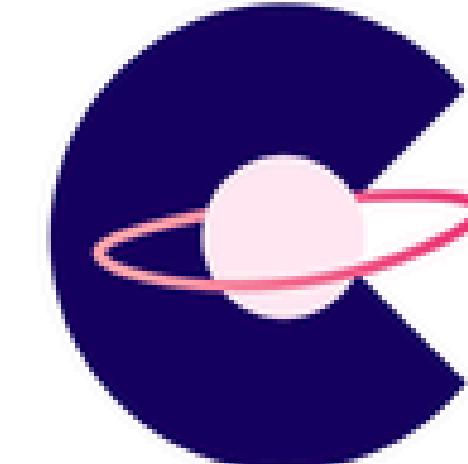
Kami Cinta Codexia (Light)

Kami Cinta Codexia (Regular)

Kami Cinta Codexia (SemiBold)

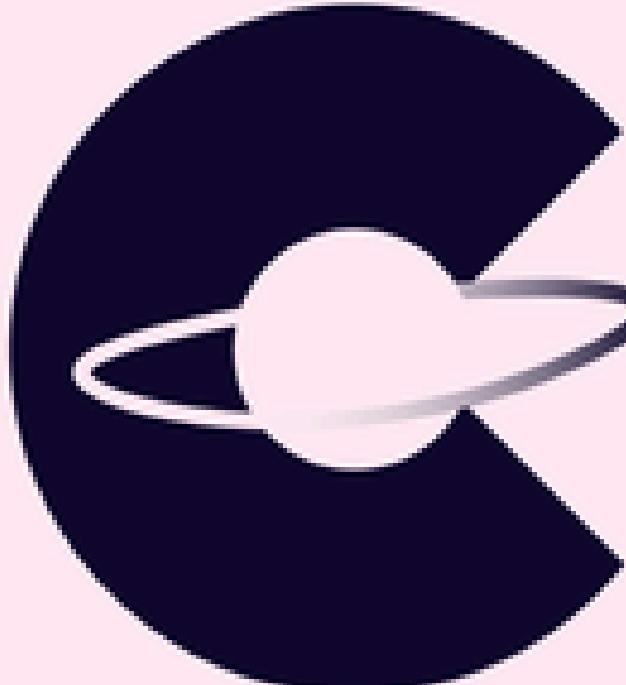


App Icon



Emblem

Light Logo



Typography Logo

