Smart Advanced Calculator

Simplifying Calculations with Real-Time Integration.

Developed by **Ajinkya S Patil(42)**, IT Engineering, VESIT.

Utilizing Flutter, Firebase, and API Integration.

Video_Presentation_Github

 -Mentor-DR. Ravita Mishra

Introduction: The Problem

Users often juggle multiple calculator apps. This is inefficient and lacks integration.

Multiple Apps

Users switch between apps for different calculations.

Inefficient

Switching apps is time-consuming and frustrating.

Lacks Integration

No seamless data transfer between calculators.
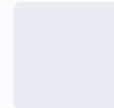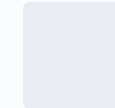
Our Solution: Smart All-in-One Calculator

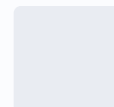This app combines all essential calculators into one.

All-In-One

Combines essential calculators into a single app.

Smart Interface

User-friendly design for easy navigation, ensuring a smooth and intuitive user experience.

Real-Time

Seamless calculations with real-time integration, providing instant results and updates.

Key Features: All-in-One

Basic arithmetic, scientific, unit converter, financial, and health calculators are available in one app.

Arithmetic	Scientific	Unit Converter

Financial

Tech Stack: Flutter & Firebase

Flutter is used for cross-platform development and Firebase for data, authentication, and analytics.

Flutter

- Cross-platform (iOS & Android)
- Fast performance

Firebase

- Real-time data
- Authentication
- Analytics

Feature Spotlight: Unit Converter

Supports 150+ units. Includes real-time currency conversion and offline mode.

Real-Time

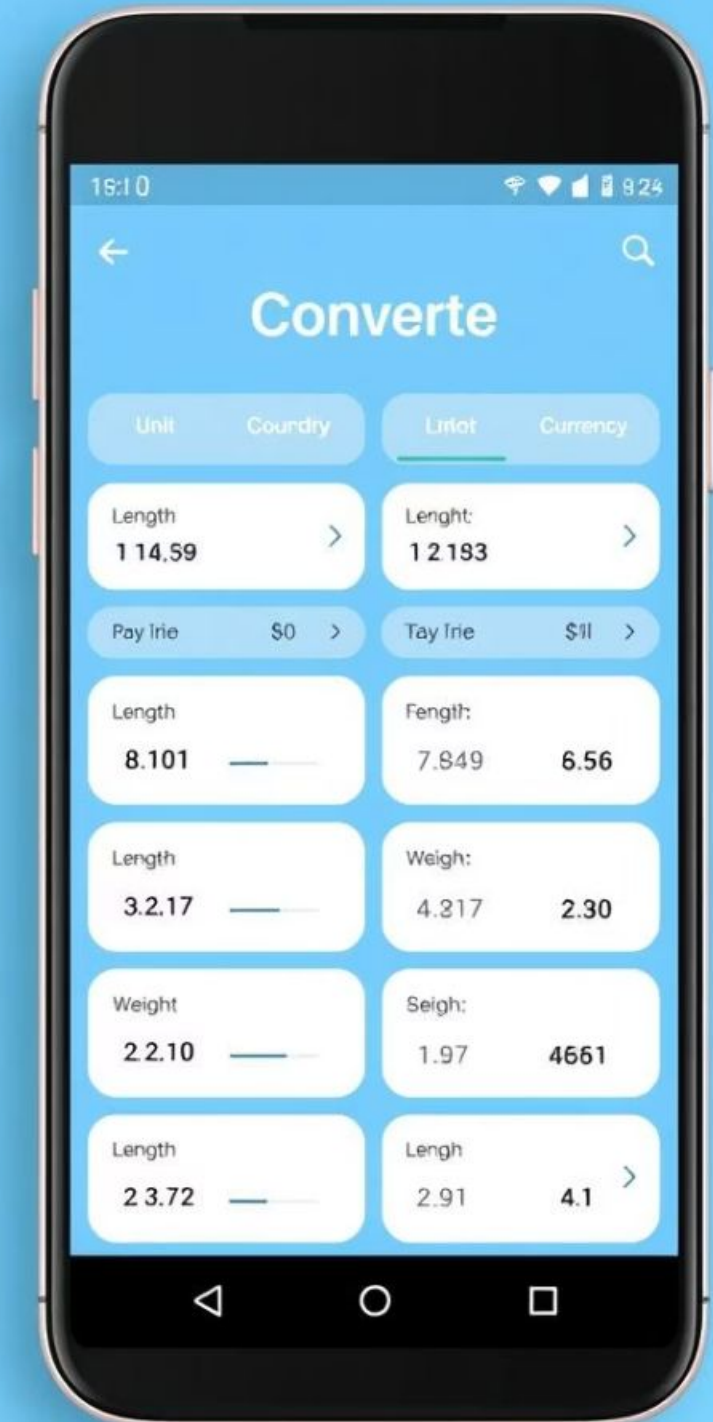Currency updates every 15 mins via API.

Offline Mode

Basic conversions available offline.
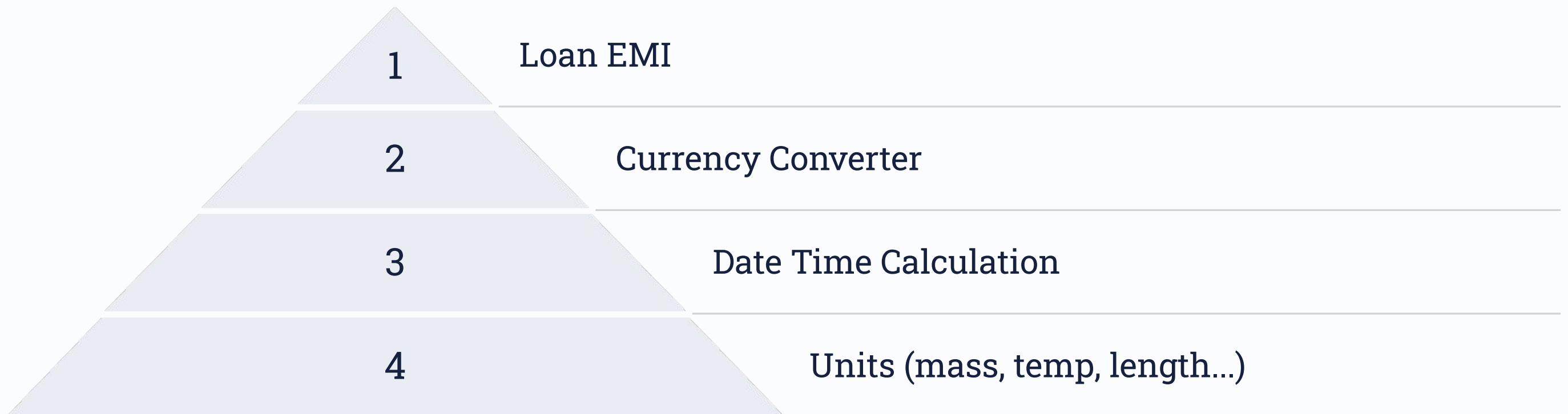
Custom Units

Users can add and save custom conversions.

Monetization & Future Plans

1	Ads
	Display non-intrusive ads.

2	Premium
	Offer ad-free version.

3	Subscription
	Advanced features, and priority support.

The app will initially use ads to generate revenue. A premium version will remove ads. A subscription model unlocks advanced calculators. This includes financial and health tools.

Feature Spotlight: Smart Calculator

This feature includes calculators for loan EMI, currency conversion, date and time calculations, and unit conversions for mass, temperature, length, data, area, and volume.

1	Loan EMI
2	Currency Converter
3	Date Time Calculation
4	Units (mass, temp, length...)

Conclusion: The Smart Choice

Solves a common problem with an elegant solution. Leverages cutting-edge technologies.

Elegant Solution

The app provides a unified interface for all essential calculators, eliminating the need to switch between multiple apps.

Optimal Performance

Built with Flutter, the app offers fast performance and a smooth user experience on both iOS and Android platforms.

Simplifies Calculations

Real-time data integration and an intuitive design make complex calculations simple and efficient.