

TIMEPASS

A FLUTTER APP

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TIMEPASS – FLUTTER APP

The **Timepass App** is a fun and interactive mobile application built with **Flutter**. It includes **multiple games**, a **news section**, and a **weather update feature**. The app aims to provide entertainment and utility in a lightweight, engaging experience.

🎮 Games Section

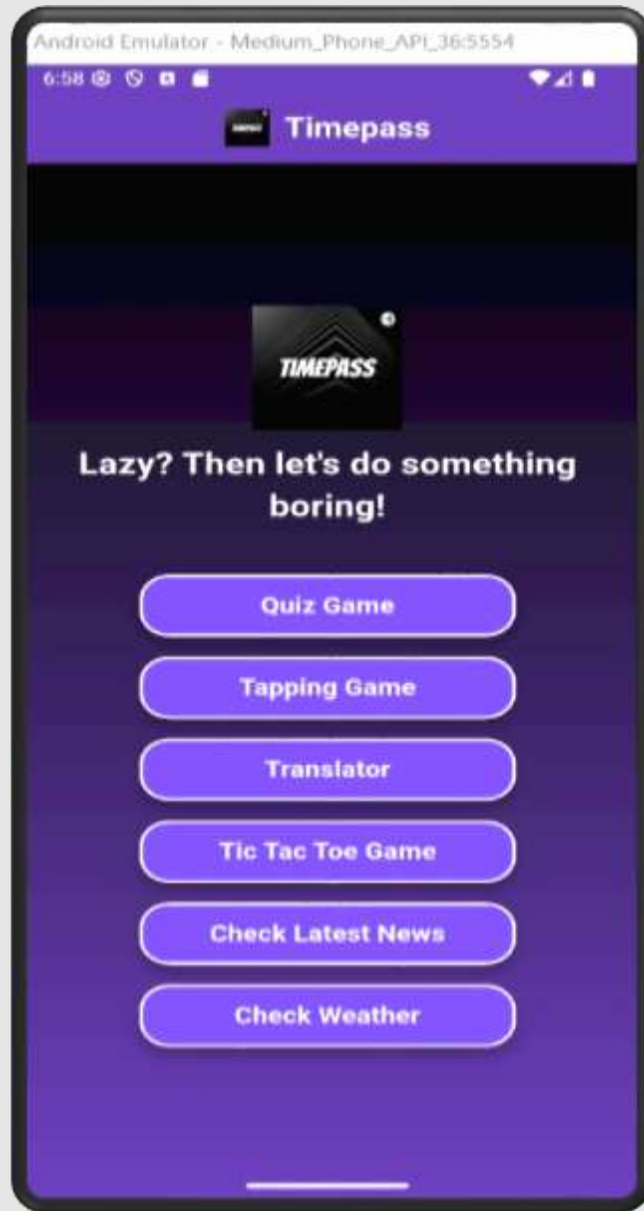
1. **Quiz Game** – A multiple-choice trivia game using an external API.
2. **Tapping Game** – A reaction-based game where users tap to score points.
3. **Tic-Tac-Toe Game** – Classic two-player Tic-Tac-Toe gameplay.

🌐 News Section

- Displays **latest news updates** using a **News API**.
- Fetches and presents **real-time headlines**.

🌤️ Weather Update

- Uses a **Weather API** to fetch **live weather data**.
- Displays **temperature**, **weather conditions**, and **location details**.



🎮 UI/UX Enhancements

- **Dark Mode** for a modern look.
- **Smooth Animations & Custom Fonts** for an engaging experience.
- **Simple & Intuitive Navigation.**

🔧 Additional Functionalities

- **API Integration** for real-time **Quiz, Weather, and News.**
- **Gesture Controls** for better interaction.
- **State Management** to ensure smooth navigation.

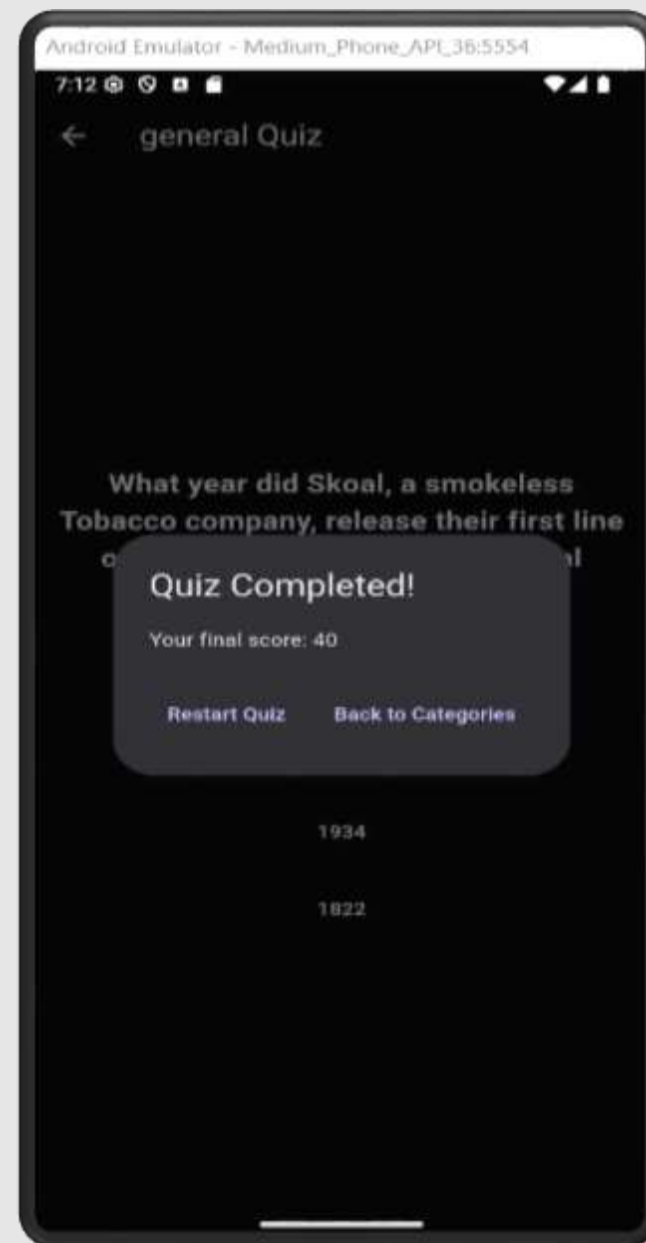
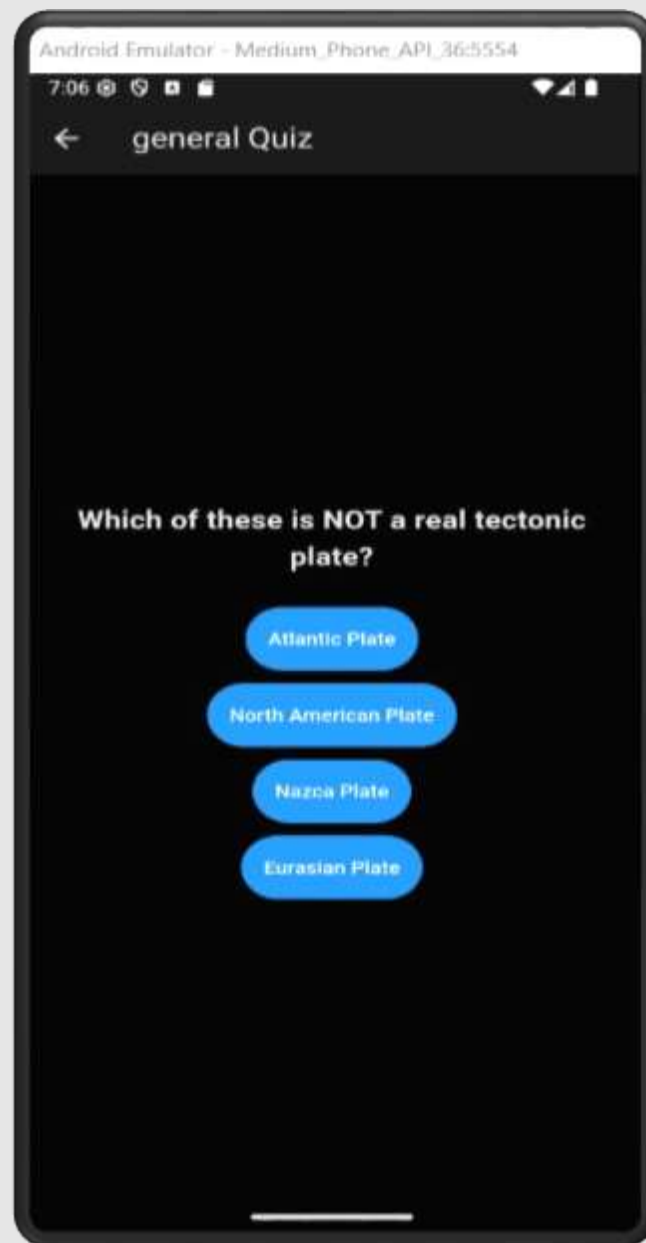
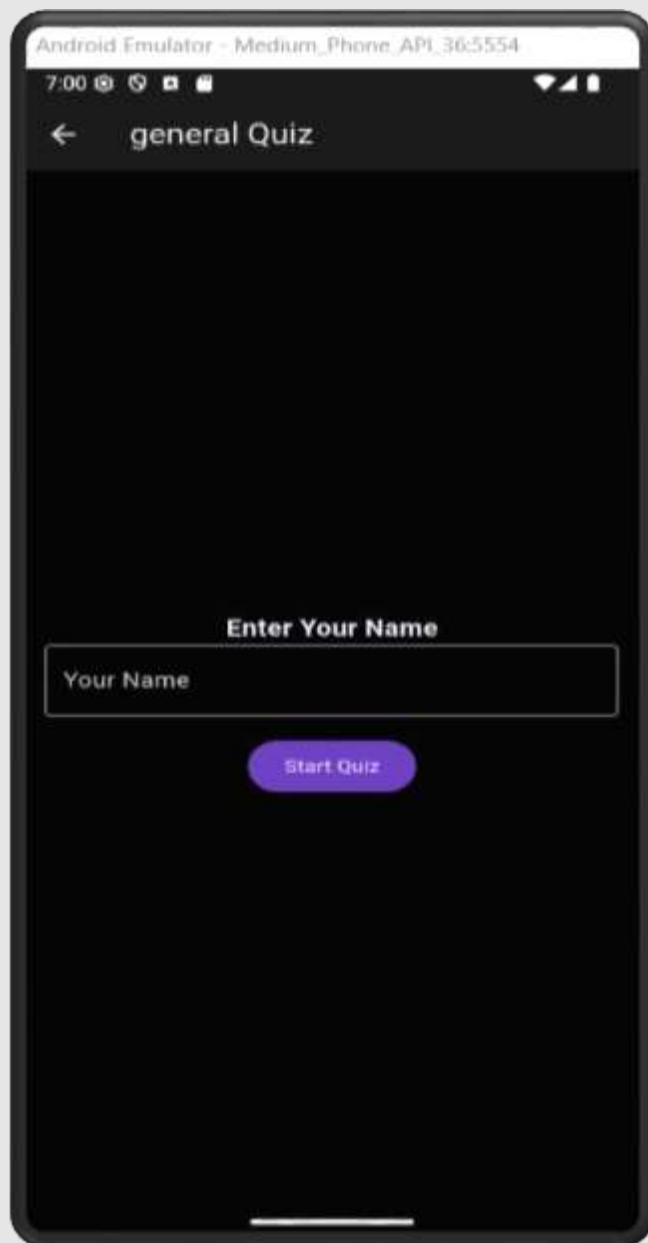
Tech Stack

- Flutter & Dart
- REST APIs (Open Trivia DB, News API, Weather API)
- Stateful & Stateless Widgets
- Custom Styling & Theming
- Firebase integration
- Localization

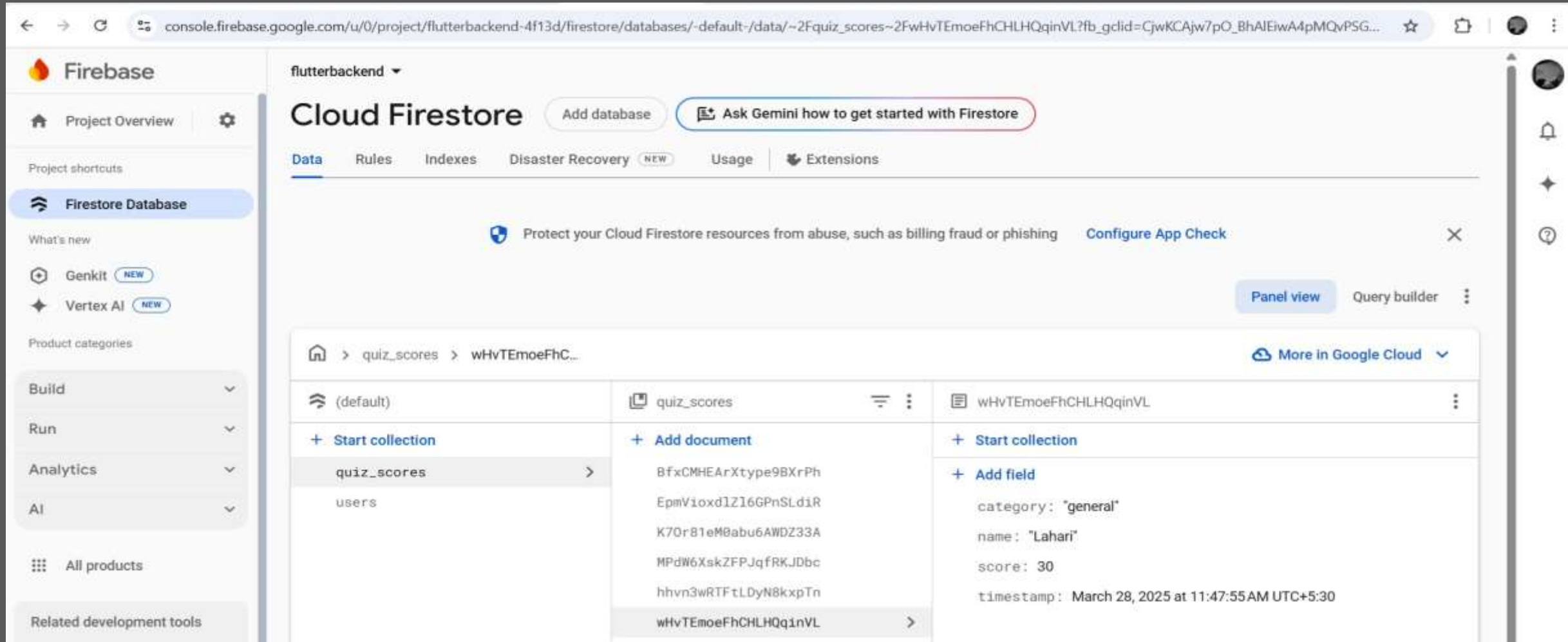


Quiz Game

- The **Quiz Game** in the **Timepass App** offers three categories: **General Knowledge, History, and Entertainment**.
- Upon selecting a category, users enter their **name** and begin the quiz. The game presents a series of **multiple-choice questions**, and users select their answers.
- At the end of the quiz, a **popup displays the final score**, along with options to **restart** or go **back to categories**.
- The **score is stored in Firebase**, ensuring data persistence. This flow repeats for all quiz categories, providing an engaging trivia experience.
- The app **fetches quiz questions** from an API (like **Open Trivia DB**).
- It uses **HTTP requests (http package)** to get quiz data dynamically.
- The retrieved JSON response is parsed, and **questions with answers are displayed** on the UI.
- This ensures **new and updated questions** every time a quiz starts.



FIREBASE DATABASE



The screenshot displays the Firebase Cloud Firestore console interface. The left sidebar shows the project overview and navigation options. The main area shows the 'Cloud Firestore' database with a 'Data' tab selected. A collection named 'quiz_scores' is visible, containing several documents. The document 'wHvTEmoeFhCHLHQqinVL' is highlighted, showing its fields: 'category' (general), 'name' (Lahari), 'score' (30), and 'timestamp' (March 28, 2025 at 11:47:55 AM UTC+5:30).

Flutterbackend ▾

Cloud Firestore

[Add database](#) [Ask Gemini how to get started with Firestore](#)

[Data](#) [Rules](#) [Indexes](#) [Disaster Recovery](#) [Usage](#) [Extensions](#)

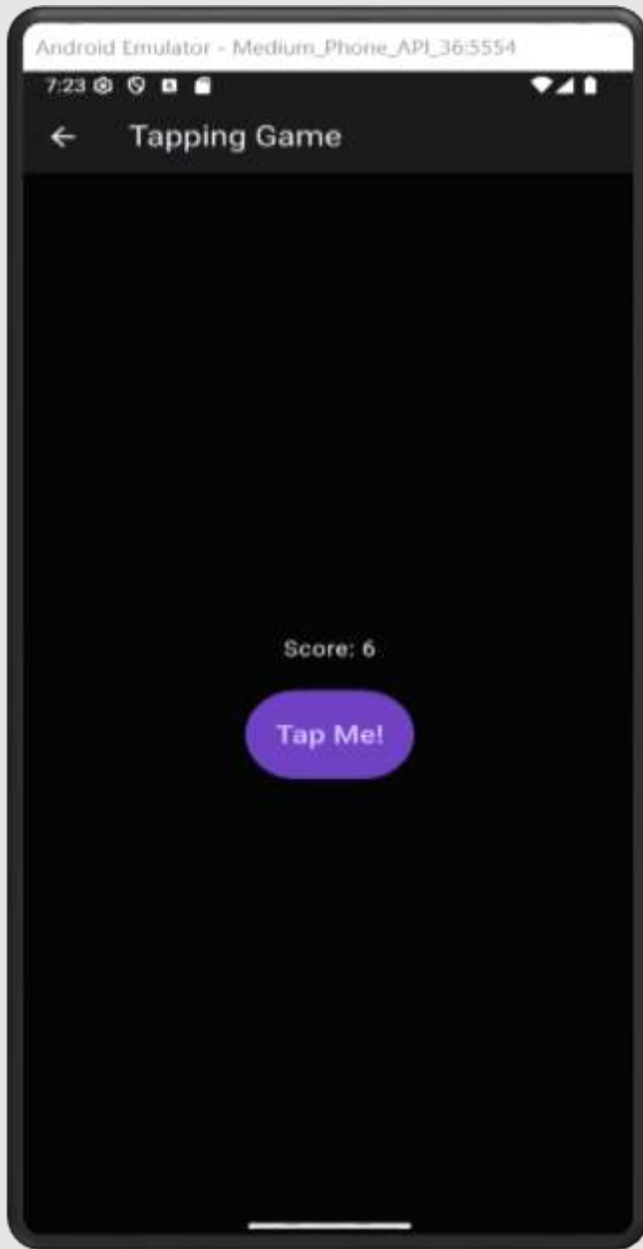
Protect your Cloud Firestore resources from abuse, such as billing fraud or phishing [Configure App Check](#)

[Panel view](#) [Query builder](#)

[More in Google Cloud](#)

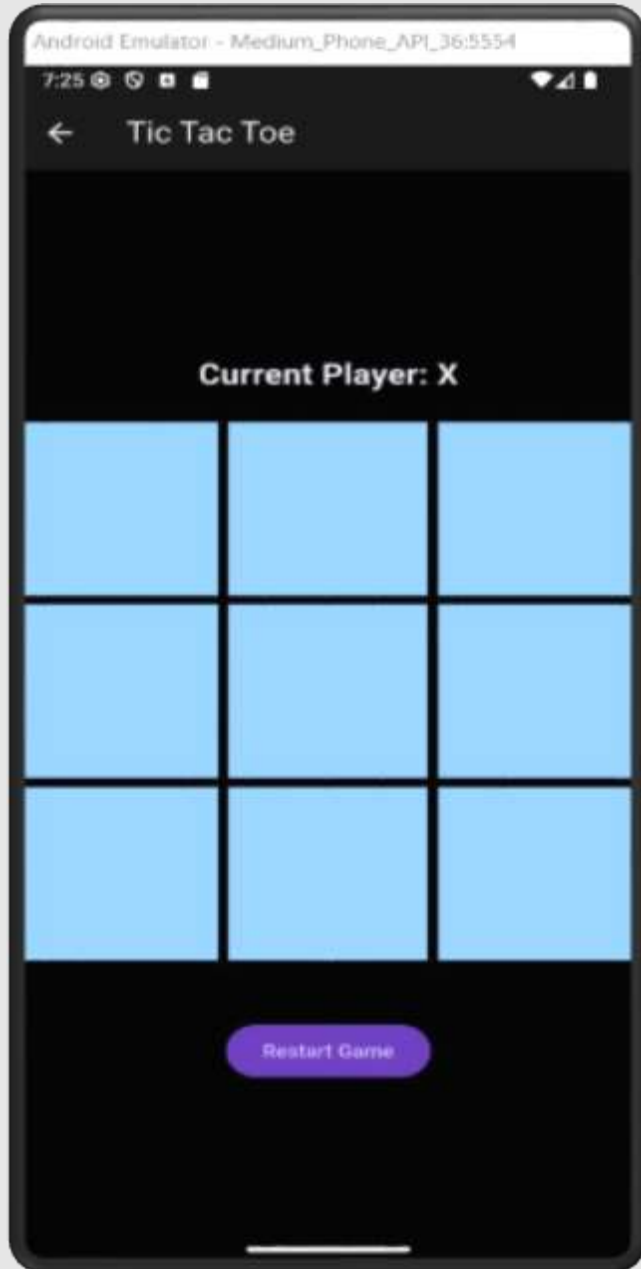
(default)	quiz_scores	wHvTEmoeFhCHLHQqinVL
+ Start collection	+ Add document	+ Start collection
quiz_scores	BfxCMHEArXtype9BXrPh	+ Add field
users	EpmVioxd1Z16GPnSLdiR	category: "general"
	K7Or81eM0abu6AWDZ33A	name: "Lahari"
	MPdW6XskZFPJqfRKJDbc	score: 30
	hhvn3wRTFtLDyN8kxpTn	timestamp: March 28, 2025 at 11:47:55 AM UTC+5:30
	wHvTEmoeFhCHLHQqinVL	

The **Firestore Database Output Page** displays the **stored game scores**, retrieved from **Firestore**, allowing players to track their progress. It fetches and updates scores dynamically, ensuring a **real-time leaderboard experience**.



Tapping Game

- The **Tapping Game** is a fast-paced, interactive game designed to test the player's speed and reflexes.
- The goal is to **tap the screen as many times as possible** within a **given time limit** to achieve the highest score.
- The game provides an engaging and competitive experience with a **simple yet addictive gameplay loop**.
- **Tap Detection:** Each tap on the screen **increments the score** dynamically.
- **Smooth UI & Animations:** Uses **buttons, text widgets, and animations** to enhance the gaming experience.



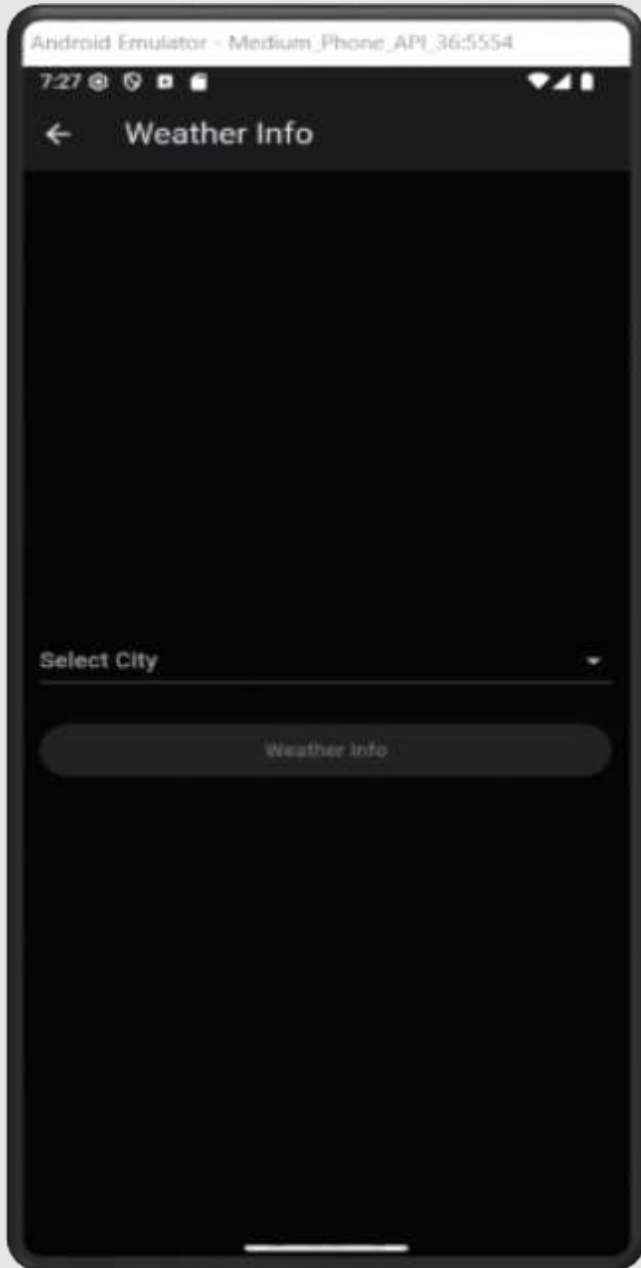
Tic Tac Toe Game

The **Tic Tac Toe Game** in the **Timepass App** is a classic **two-player strategy game** where users take turns marking "X" or "O" on a 3x3 grid. The player who succeeds in placing three of their marks in a horizontal, vertical, or diagonal row wins the game. Features:

- **Interactive UI** – A visually appealing and responsive design for smooth gameplay.
- **Win/Loss Detection** – The game automatically detects a win, loss, or draw and displays the result.
- **Reset Functionality** – Restart the game anytime with a reset button.
- **Animated Turn Indication** – Highlights the current player's turn for better visibility.

The game ensures a **fun and competitive** experience while helping players enhance their **strategic thinking and decision-making skills**.





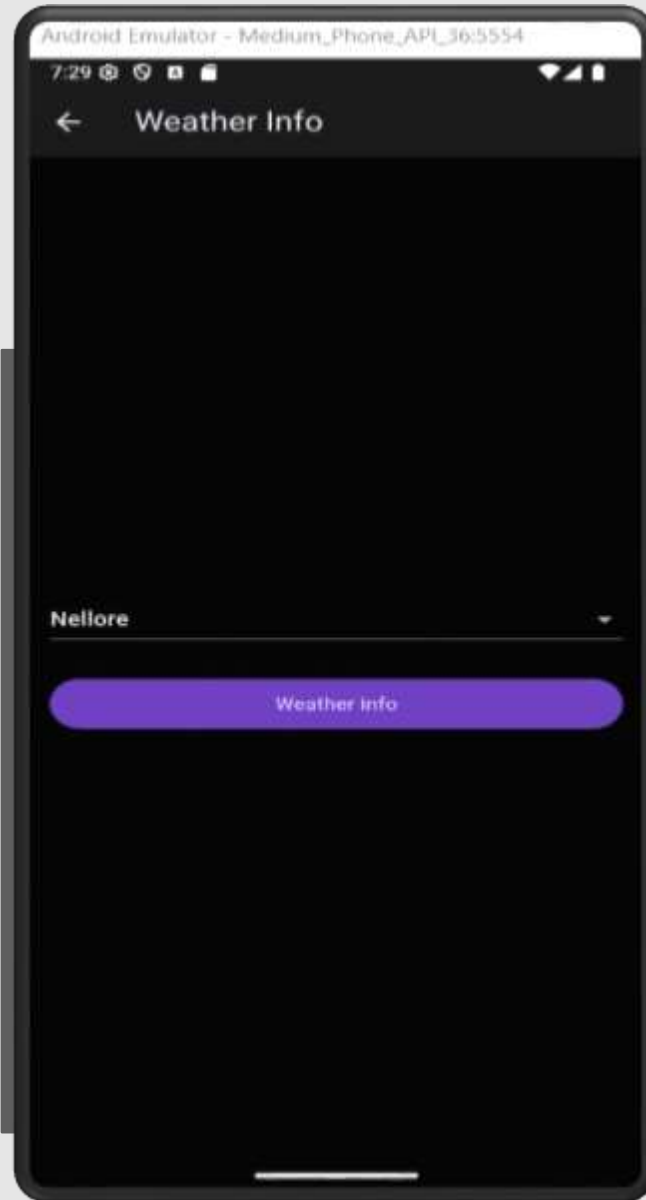
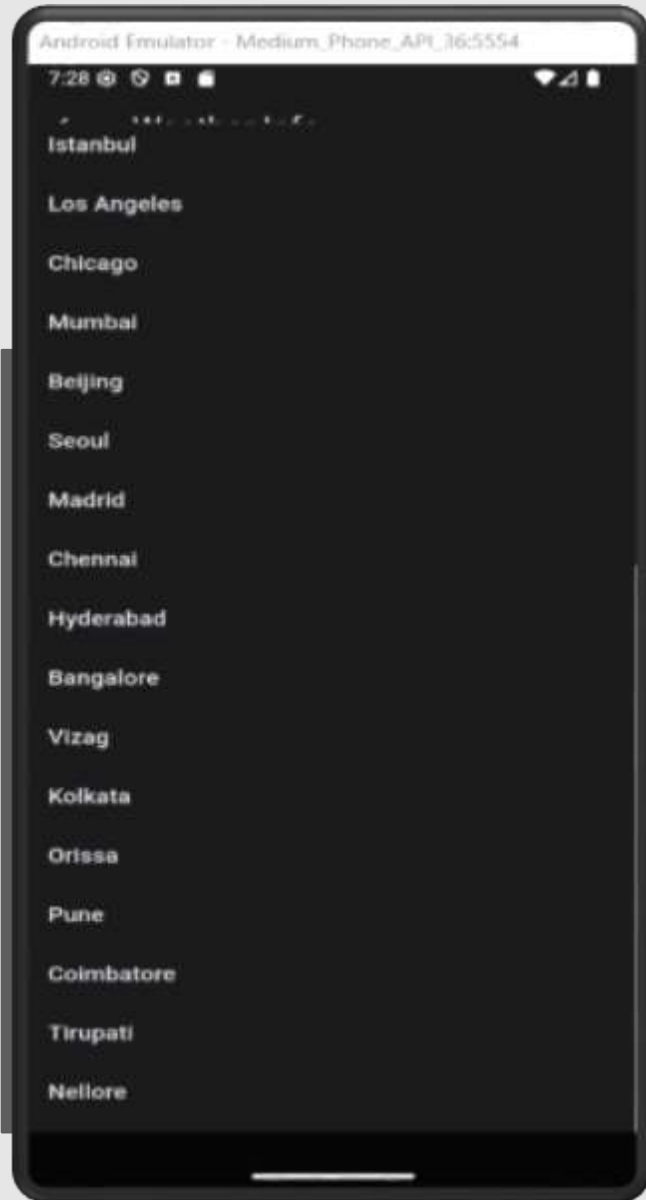
Weather App

The **Weather Info** in the **Timepass App** provides real-time weather updates for any location. Users can check current temperature, humidity, wind speed, and weather conditions with a clean and interactive UI.

Features:

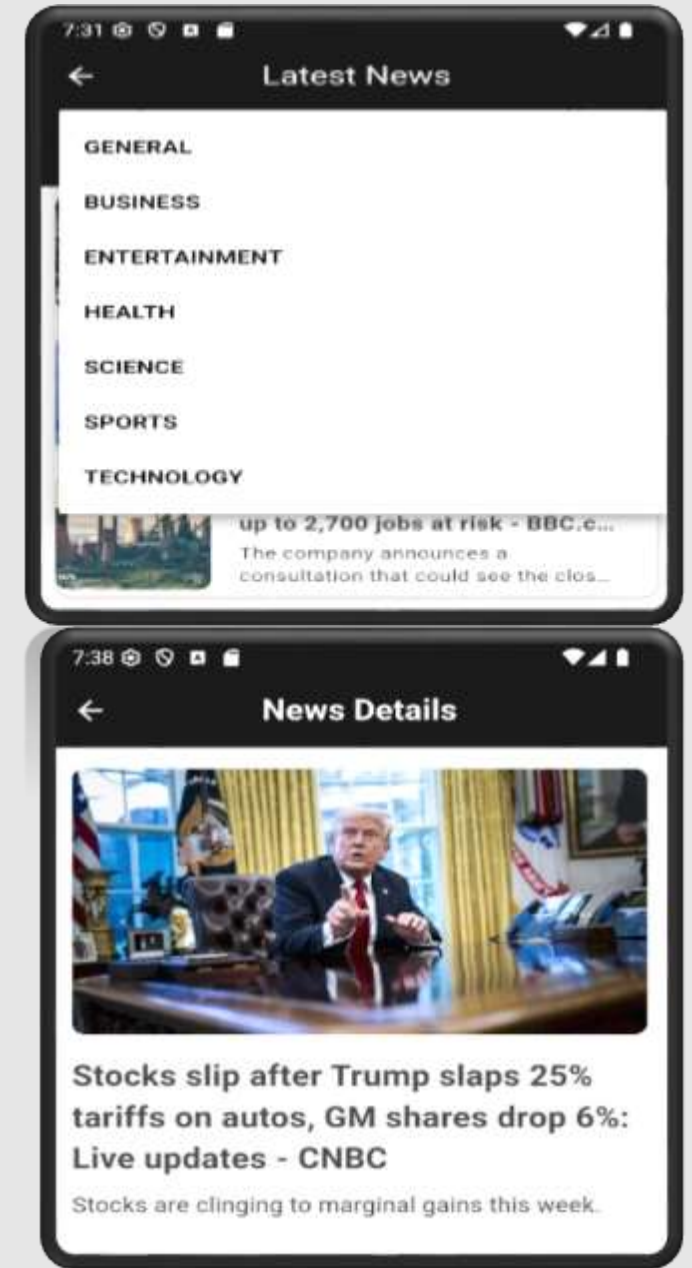
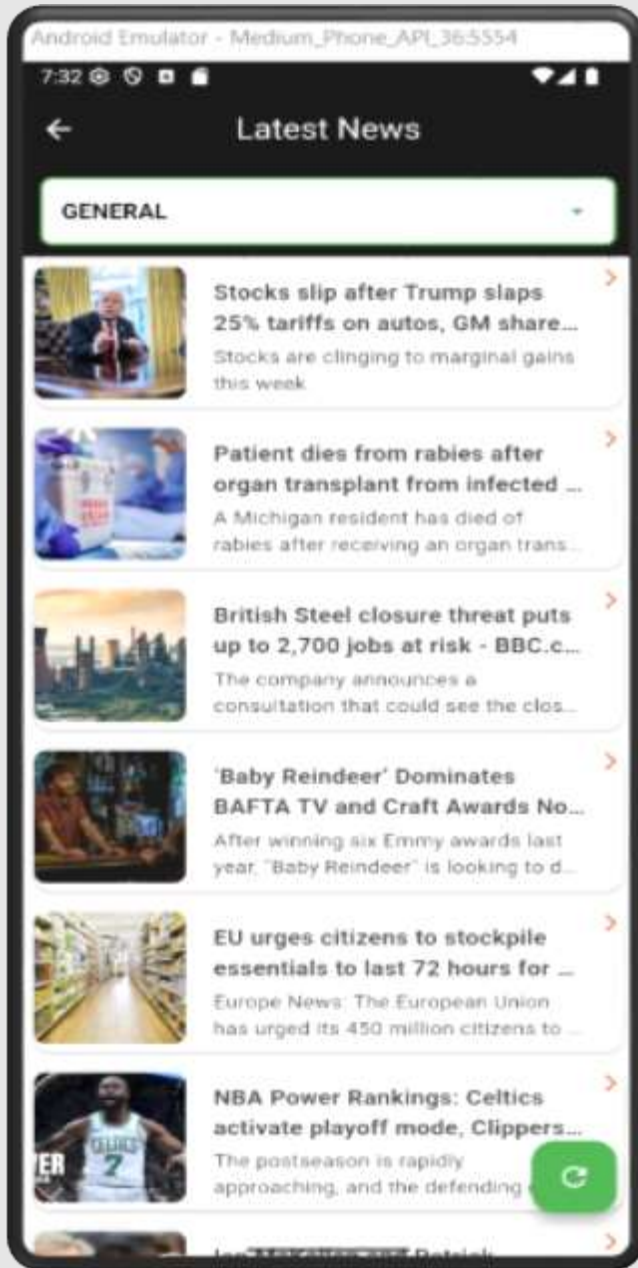
- **Live Weather Data** – Fetches real-time weather updates using an API.
- **Location-Based Search** – Users can enter any city name to get weather details.
- **Temperature Display** – Shows temperature in Celsius/Fahrenheit.
- **Additional Weather Details** – Includes humidity, wind speed, and weather conditions.
- **Themed UI** – Changes background based on weather conditions (e.g., sunny, rainy).

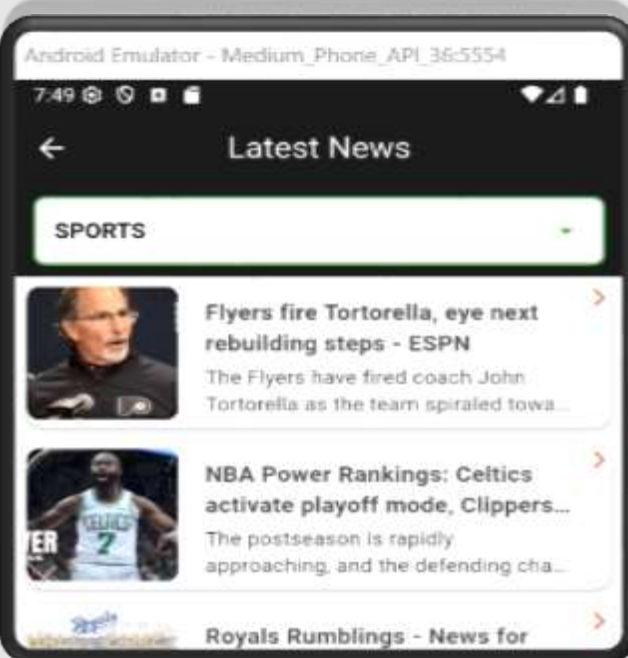
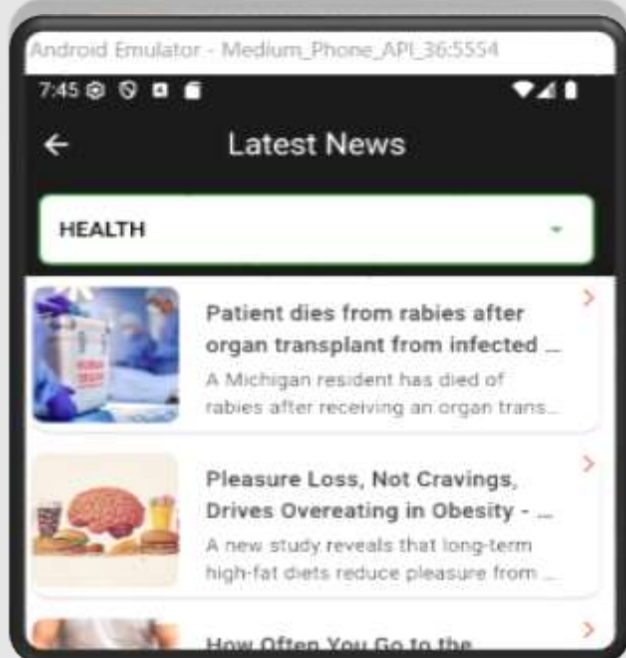
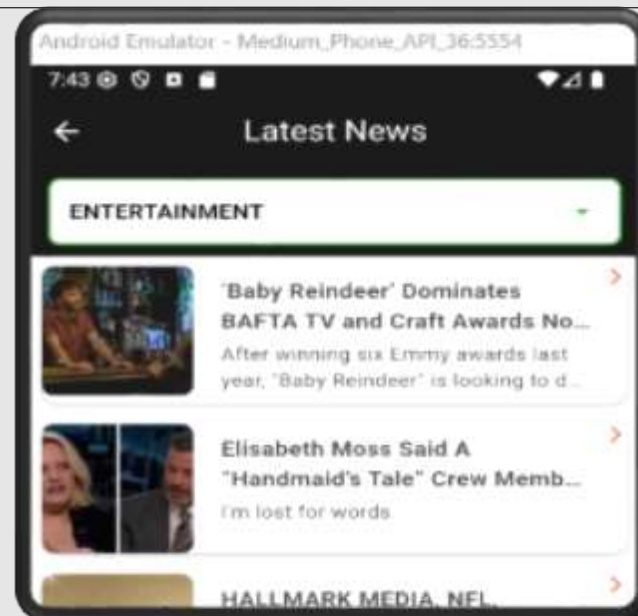
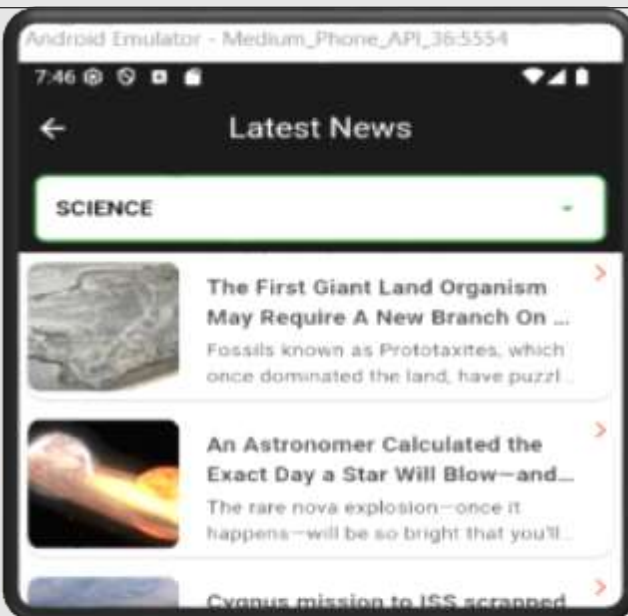
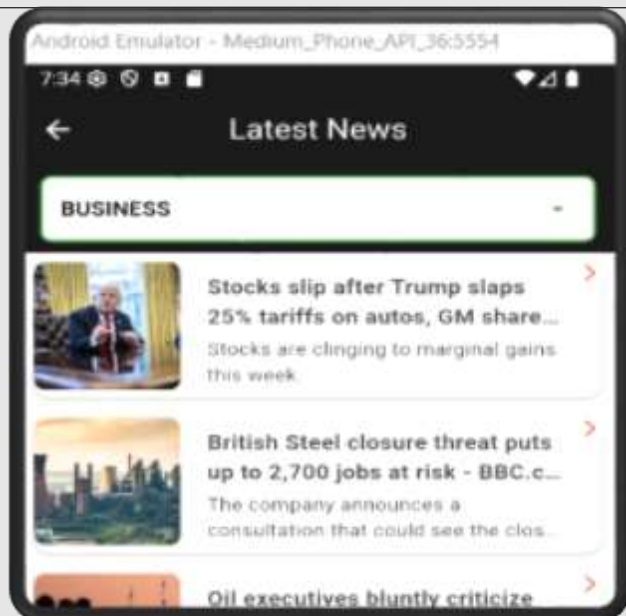
The app ensures a **seamless experience** with smooth navigation and an intuitive design, making it easy to check the weather anytime.

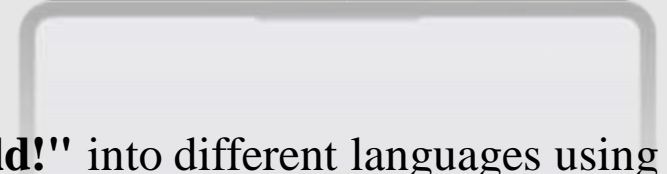


News Page

- The **News Page** fetches the latest news updates using the **News API**.
- Users can select different categories from a **dropdown menu** (e.g., General, Sports, Technology, Business, Entertainment, Health, Science) to view relevant news articles.
- Each news item has a **detailed view page**, displaying the full article, image, and source link for more information.
- The app ensures a smooth and interactive experience for staying updated with current events.







Translator Page

the predefined text like "Hello."

Translator Page

The **Translator Page** allows users to translate predefined text like **"Hello, World!"** into different languages using **localization** instead of an API. A **dropdown menu** enables language selection, instantly updating the translated text on the screen. This feature ensures fast and offline translations, enhancing accessibility for multilingual users.



Thank You

Conclusion

- The **Timepass Games & Utility App** is a feature-rich Flutter application that includes interactive games and useful utilities.
- It utilizes **API integration** for fetching quiz questions, weather updates, and news.
- The app also incorporates **Firebase** for storing quiz scores and **localization** for offline text translation.
- With a user-friendly interface, smooth navigation, and real-time updates, this app provides both entertainment and useful functionalities in one place.