

News App: A Feature- Rich Flutter Application

-DEEPIKA G

Problem statement

- ✓ With the overwhelming amount of news available online, users struggle to find reliable and relevant information quickly.
- ✓ Many existing news platforms lack real-time updates, often leading to outdated content.
- ✓ The absence of category-wise news filtering makes it difficult for users to focus on specific topics of interest.
- ✓ Poor UI/UX design in many news apps results in complex navigation and reduces user engagement.
- ✓ There is a need for a feature-rich mobile application that provides customized, up-to-date, and easily accessible news content.
- ✓ No save-for-later feature in many apps makes it difficult for users to revisit important news.

Project overview

- ✓ Live News App, developed using Flutter, ensures a seamless and cross-platform experience.
- ✓ NewsAPI integration enables fetching the latest news from trusted sources.
- ✓ Category-Based News Filtering allows users to explore news across Business, Entertainment, Health, Science, Sports, and Technology.
- ✓ Fast and Lightweight design ensures quick loading times and smooth performance.
- ✓ Enhanced User Experience features intuitive navigation and interactive elements to improve engagement.
- ✓ Favorites Section: Allows users to save and revisit important news articles.
- ✓ Notes Section: Enables users to jot down their thoughts and opinions on news topics.
- ✓ Important Dates Section: Provides a feature to mark and remember significant dates related to news events.

HOME PAGE

The Home Page provides access to various news categories through an intuitive `GridView` layout. (`StatelessWidget`)

Key Features:

- ✓ Latest Headlines: Displays breaking news. (`StatefulWidget`)
- ✓ Categories: Browse news by topics. (`StatelessWidget`)
- ✓ Favorites: Save preferred articles. (`StatelessWidget`)
- ✓ Notes: Store news-related notes. (`StatelessWidget`)
- ✓ Important Days: Highlights key events. (`StatefulWidget`)
- ✓ About: App information. (`StatelessWidget`)

Navigation & Localization:

- ✓ Smooth page transitions using `GestureDetector` and `Navigator.push()`.
- ✓ Multi-language support via Action Chips.

Styling & Theming:

- ✓ Modern UI with rounded cards, shadows, and gradient background.

News App

Get the latest news updates here...



latest_headlines



news_categories



favorites



about



news_notes



important_days

English

Español

Français

தமிழ்

తెలుగు

हिन्दी

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புதுப்பிப்புகளை இங்கே
பெறுங்கள்...

latest_headlines



news_categories



favorites



about



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Headlines page

The Headlines Page provides users with real-time news updates, ensuring they stay informed with ease.

Key Features:

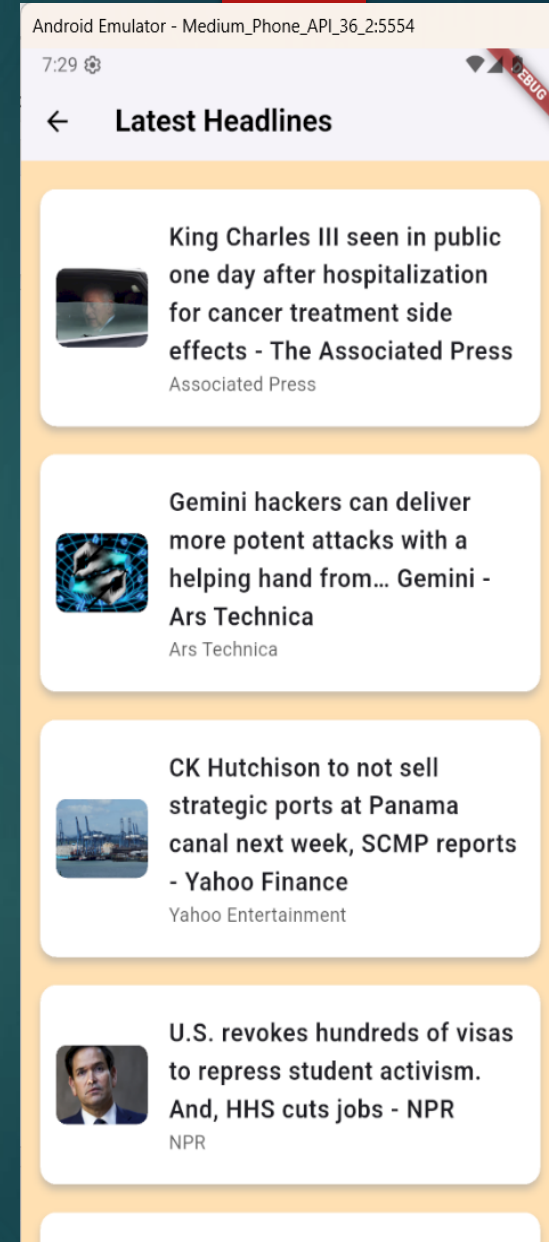
- ✓ Latest News Updates – Fetches and displays top headlines from an API.
- ✓ Image Previews – Displays images for a visually engaging experience.
- ✓ Efficient Scrolling – Uses ListView.builder for optimized performance.

Navigation & Gestures:

- ✓ Uses Navigator.push() for smooth transitions to detailed news pages.
- ✓ Implements GestureDetector for interactive user actions.

Dynamic Content Fetching:

- ✓ Real-time API Integration – Retrieves news dynamically from NewsAPI.
- ✓ Automatic Refresh – Updates content seamlessly for fresh headlines.



Categories page

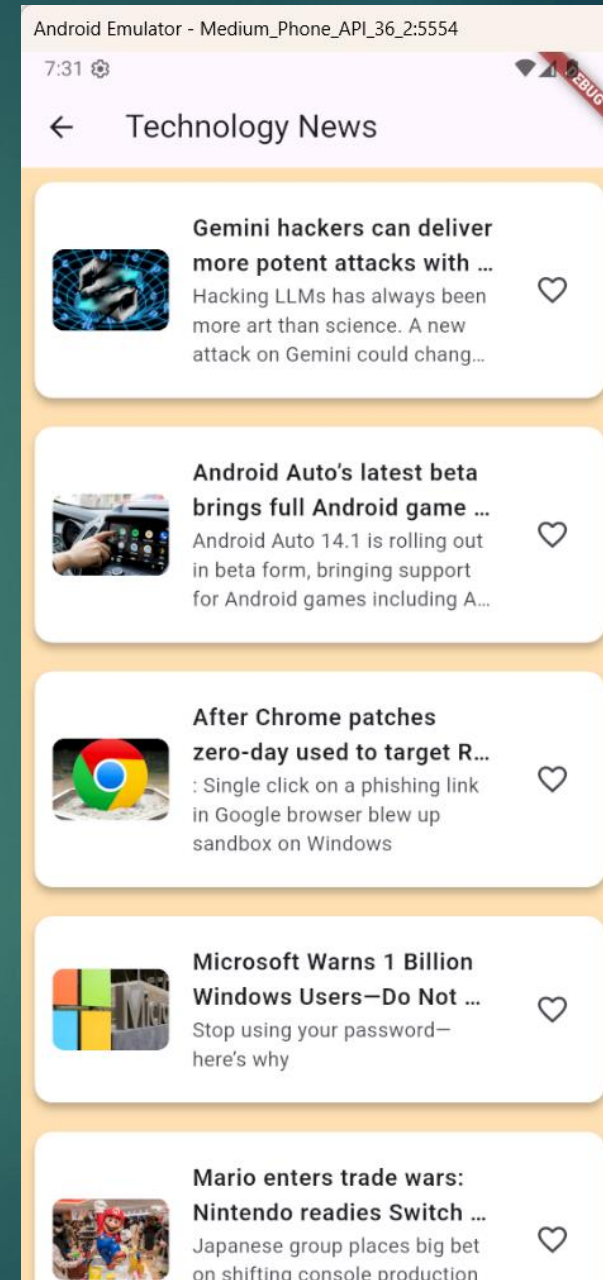
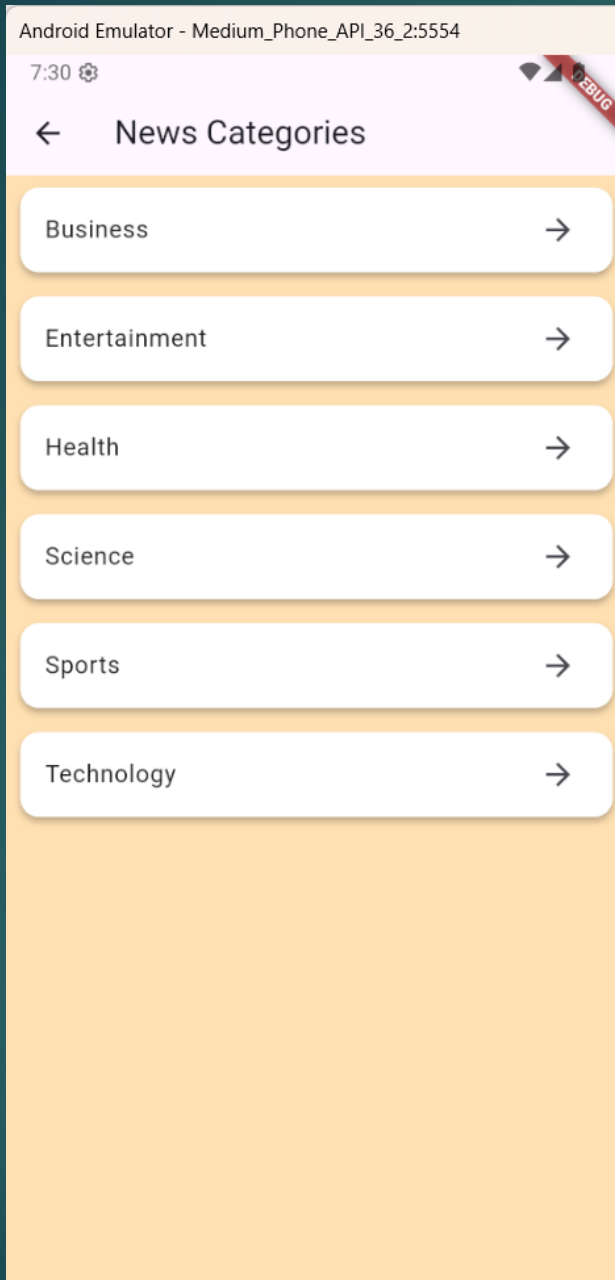
The Categories Page allows users to browse news based on different topics, providing an organized way to explore content

Key Features

- ✓ News Categories – Displays different categories like Business, Entertainment, Health, Science, Sports, and Technology
- ✓ Category-based Navigation – Users can tap a category to view relevant news articles
- ✓ Favorites Support – Users can save articles to Firebase Firestore for easy access later

User Interaction & Experience

- ✓ Dynamic API Fetching – News articles are retrieved in real time from NewsAPI based on selected categories
- ✓ Seamless Navigation – Uses `Navigator.push()` for smooth category-to-news transitions
- ✓ Card-based UI – Clean and modern ListView layout with interactive ListTiles



Favorites page

The Favorites Page allows users to save and revisit their favorite news articles, providing a personalized reading experience

Key Features

- ✓ Saved News – Displays a list of favorite articles stored in Firebase Firestore
- ✓ Image Previews – Showcases images for a visually engaging layout
- ✓ Efficient Storage – Uses **Firestore** to manage saved news seamlessly

User Interaction & Experience

- ✓ Real-time Updates – Fetches favorite articles dynamically using Firestore snapshots
- ✓ Easy Management – Users can remove saved articles with a single tap
- ✓ Card-based UI – Clean and interactive design for a better reading experience

About Page



The About Page provides users with an overview of the Live News App, highlighting its purpose and key functionalities.

Key Features

- ✓ App Overview – Offers insights into the app's purpose, including real-time news updates across various categories.
- ✓ Card-based UI – Displays content in a structured and visually appealing manner for easy readability.
- ✓ User-Friendly Design – Ensures a clean and engaging experience with clear text and intuitive navigation.

News Notes Page

- ▶ **The Notes Page** enables users to write, save, and manage personal notes related to news articles, ensuring easy reference and organization.
- ▶ It utilizes **Sqflite (SQLite plugin for Flutter)** for efficient local storage, providing a seamless and reliable note-taking experience.

Key Features

- ✓ News Note-Taking – Users can create and store notes for different news articles.
- ✓ Sqflite Storage – Ensures efficient and persistent local storage for notes.
- ✓ Structured Input – Provides dedicated fields for the news title and content.

User Interaction & Experience

- ✓ Seamless Management – Users can add, view, and delete notes effortlessly.
- ✓ Interactive UI – Card-based design for a clean and organized note display.
- ✓ Persistent Data – Notes remain saved even after app restarts using Sqflite.

Important Days Page

- ▶ The Important Days Page allows users to save and track significant dates along with custom notes, ensuring important events are easily accessible.
- ▶ It utilizes **Firestore** for real-time data storage and retrieval, providing a seamless user experience.

Key Features

- ✓ Date Selection – Users can choose and save important dates
- ✓ Firestore Storage – Ensures real-time storage and retrieval of important days
- ✓ Custom Notes – Allows users to add descriptions for each saved date

User Interaction & Experience

- ✓ Dynamic Updates – Data is stored in Firestore and updated in real-time
- ✓ Easy Management – Users can add and delete important days effortlessly
- ✓ Interactive UI – Card-based layout for an organized display of saved events

NOTES PAGE

Android Emulator - Medium_Phone_API_36_2:5554

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← News Notes

News Title

Your Notes

Save Note

Revival of India's Native Cotton Varieties

Reviving indigenous cotton varieties can lead to more sustainable and environmentally friendly textile production.

Vogue Business

Supporting local initiatives helps preserve cultural heritage and promotes ethical practices in the fashion industry.

Delhi Government to Deny Fuel to Older Vehicles Starting April 1

The Delhi Government has announced measures to curb air pollution, including a ban on petrol and diesel sales to vehicles older than 15 years, effective April 1.

The Tribune

This initiative aims to reduce vehicular emissions and improve air quality in the national capital.

FAVOURITES PAGE

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← Favorite News

Scientists Discover a Simple Trick to Eliminate Plastic Particles from Tap Water

Boiling tap water traps and removes up to 90% of harmful plastic particles, off...

Minimalist Light Phone 3 launches with a maximum of 100 apps

Digital minimalists rejoice as the brand new Light Phone 3 is here, but temper those ex...

What will happen during the partial solar eclipse on March 29?

Observers across eastern North America and much of Europe will have front-row s...

Clearing Brain Waste Dramatically Improves Memory in Mice

As we get older, the essential cleaning processes that our brains need to keep functio...

IMPORTANT DAYS PAGE

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← Important Days

Select Date

Enter a note

Save

IPL starts

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