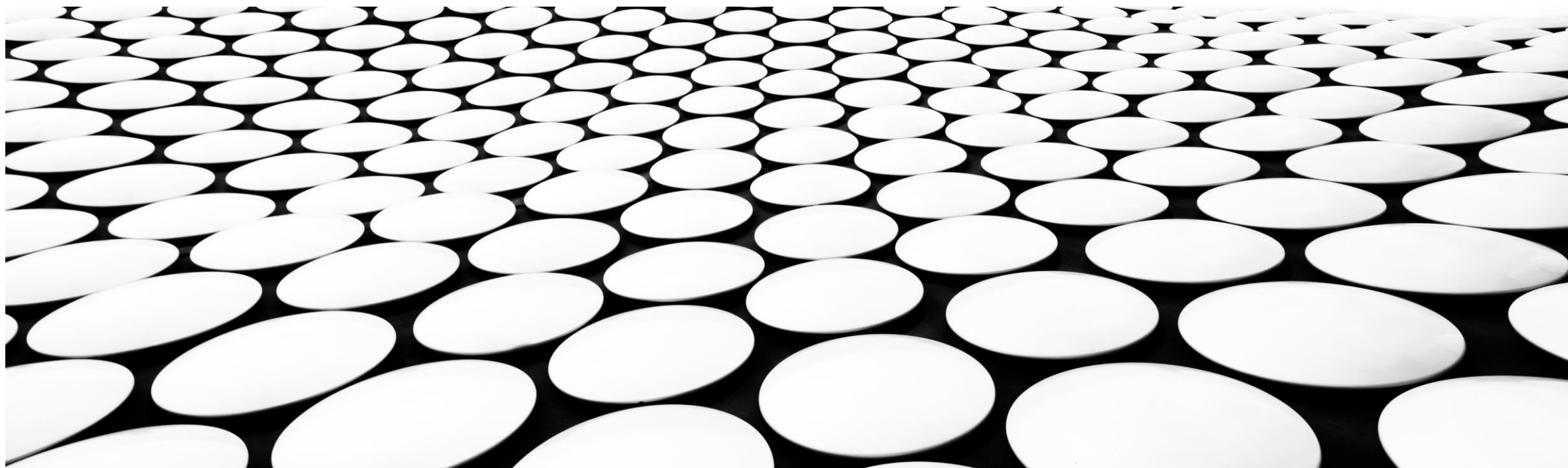# Daily Hunt – Times of India

~ Shalini R

OVERVIEW

➢ The News App is a Flutter-based mobile application that delivers real-time news updates from various sources. It features Firebase Authentication for user login and signup, with persistent login using Shared Preferences and a logout functionality. The app fetches and displays news articles from a public API, showing headlines, images, and descriptions, with categorized sections like Sports, Technology, and Business.

➢ The app has a user-friendly UI/UX, including a Home Page for trending news, a News Detail Page for full articles, and a Profile Page for user settings and logout. It supports localization with English and Tamil, storing language preferences using Shared Preferences. The app also includes light and dark mode support using Theme data.

BASIC NEEDS FOR A PROJECT

➢ **REST API Integration:** Fetches external data like news articles from online sources.

➢ **Shared Preferences:** Stores user preferences like theme, language, and saved articles locally.

➢ **Notifications (App Notifications):** Sends real-time updates and alerts to users.

➢ **Navigation & Routing :** Manages screen transitions and navigation within the app.

➢ **Permissions Handling:** Manages user permissions for storage, contacts, and notifications.

HOME

➢ The home page of the Times of India Flutter news app serves as the central hub for users. It provides quick access to Profile Management, where users can view and update their details.

➢ The Settings section allows customization options like theme mode, language preferences, and font size adjustments. Additionally, users can easily log in or log out, ensuring a personalized and secure experience.

LOCALIZATION

➤ Localization in the news app allows users to experience content in their preferred language. It dynamically adapts the app's UI elements, text, and formats based on the selected language.

➤ Users can switch between supported languages from the settings page. This enhances accessibility and ensures a user-friendly experience for a diverse audience.

SIGN IN-LOGIN(DATABASE)

FIRE BASE AUTHENTICATION

➢ **Firebase Authentication:** Enables secure user login and registration using email/password, Google, and other authentication methods, ensuring seamless access management.

➢ **Firebase Database:** A cloud-based NoSQL database that stores and syncs user data in real-time, allowing efficient and scalable data management for the app.
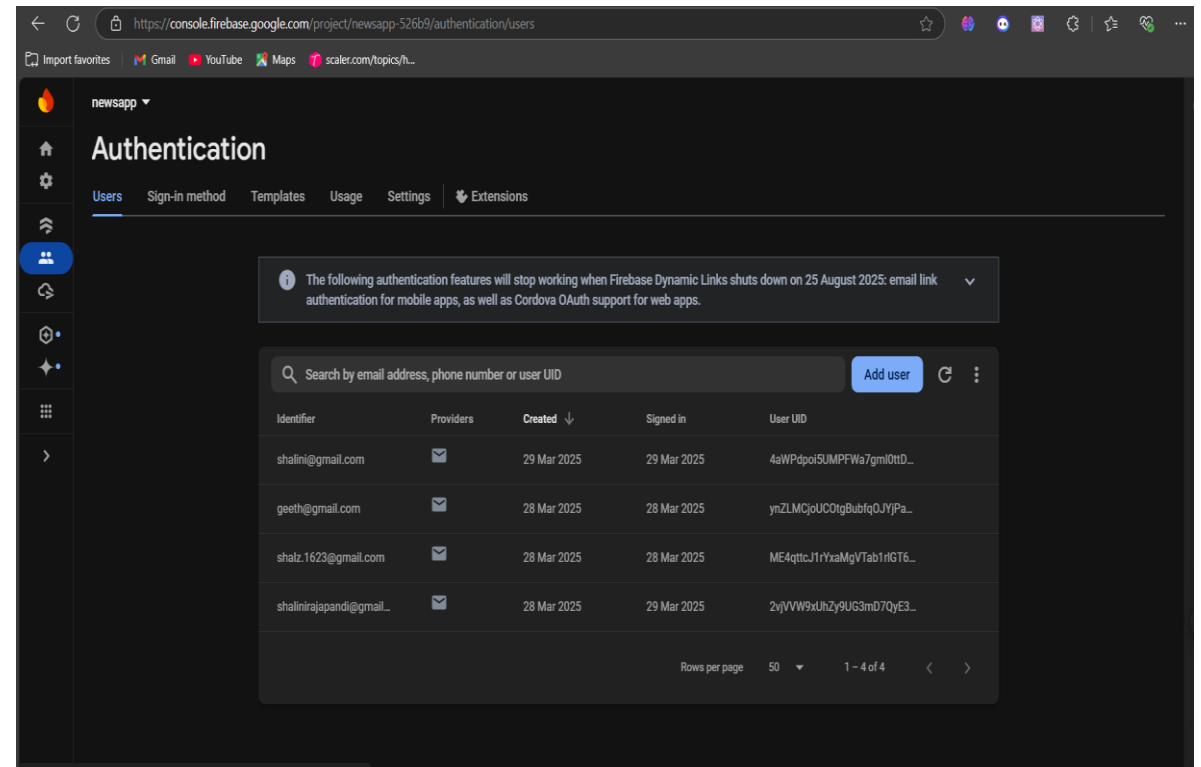
NEWS - CATEGORIES
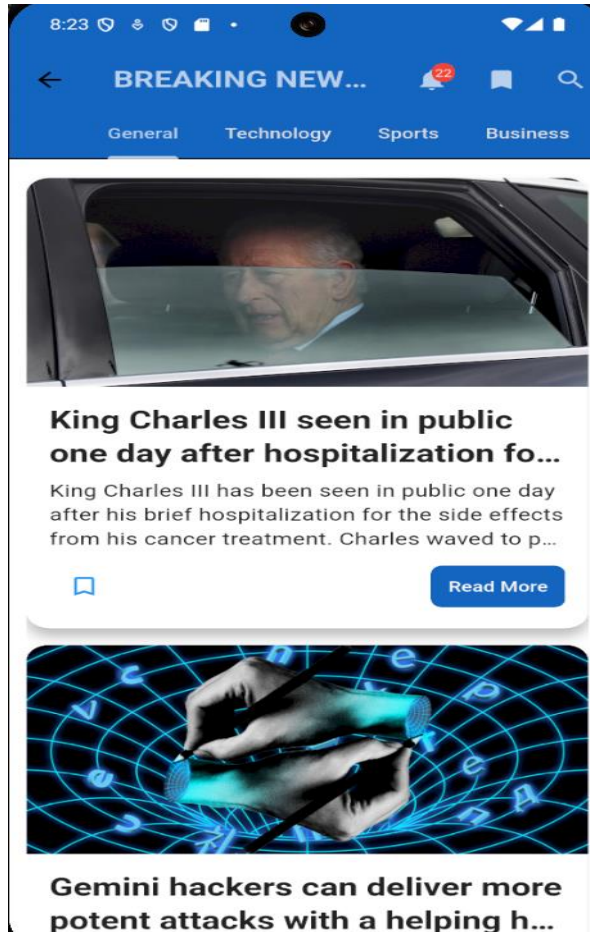
➢ The News Page in the Times of India Flutter app provides a categorized display of the latest news, ensuring users can easily navigate different sections like politics, sports, and entertainment. It features a search function, allowing users to find specific articles quickly.

➢ Users can save their favorite news articles for later reading and access them anytime. Clicking on a news article navigates to the News Detail Page, where users can view the full content. The app also includes push notifications, keeping users updated with breaking news and important alerts. With a clean and user-friendly interface, the News Page enhances the overall reading experience.

NEWS-DETAILS – SHARE WITH CONTACTS

➢ The News Detail Page provides an in-depth view of a selected news article with full content and images. Users can share articles directly via SMS or other platforms using the built-in sharing option.

➢ The page ensures a seamless reading experience with a clean layout and easy navigation. Additionally, users can save articles for later reference or revisit them anytime.
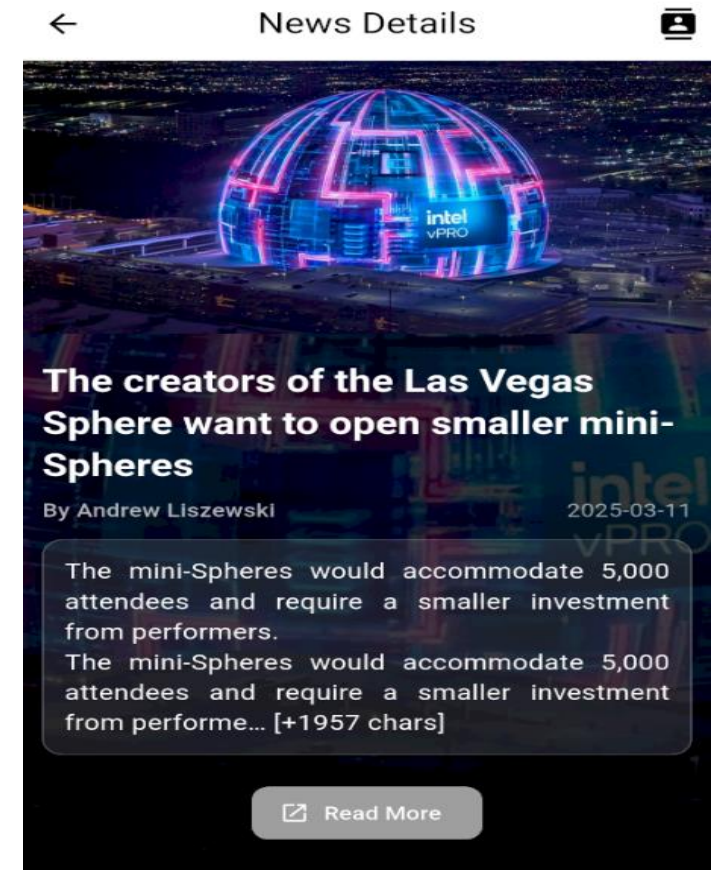
SMS - CONTACTS
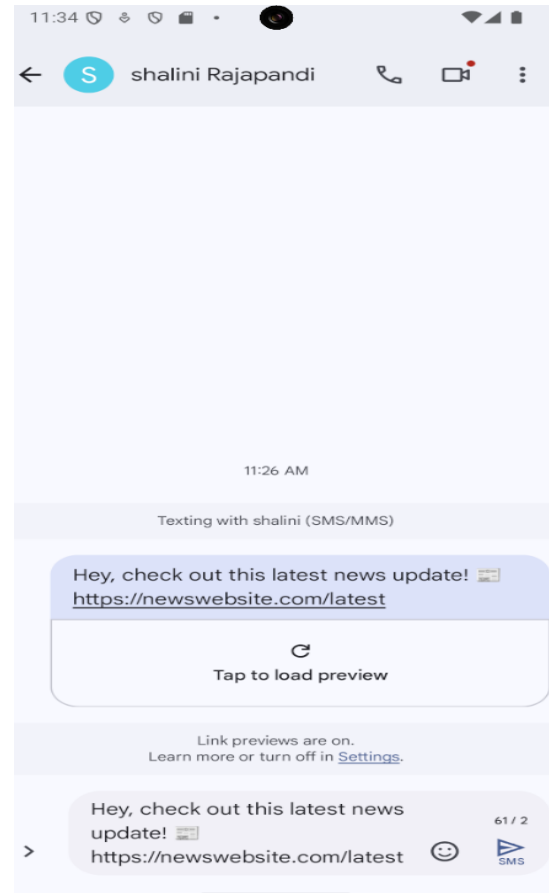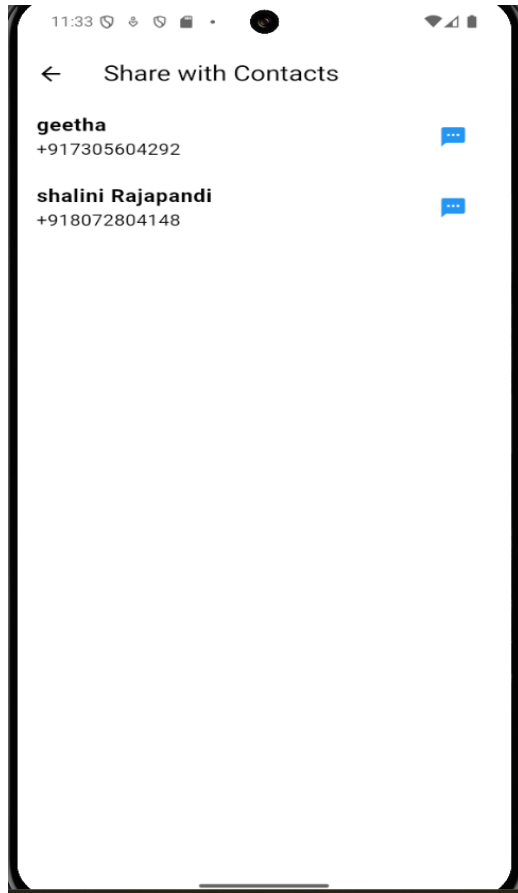
➢ The News Detail Page allows users to share news articles easily by fetching their contact list and selecting a recipient. Users can share the news via SMS, sending a direct link to the article.

➢ This feature ensures quick and seamless content sharing without needing third-party apps. It enhances user engagement by allowing instant news distribution to friends and family.

NOTIFICATION

➤ The Notification Page keeps users updated with the latest news alerts and personalized recommendations. Users receive real-time notifications based on their saved preferences and interests.

➤ The page displays a list of notifications with timestamps for easy tracking. Users can manage notification settings to enable or disable specific alerts as per their preferences.
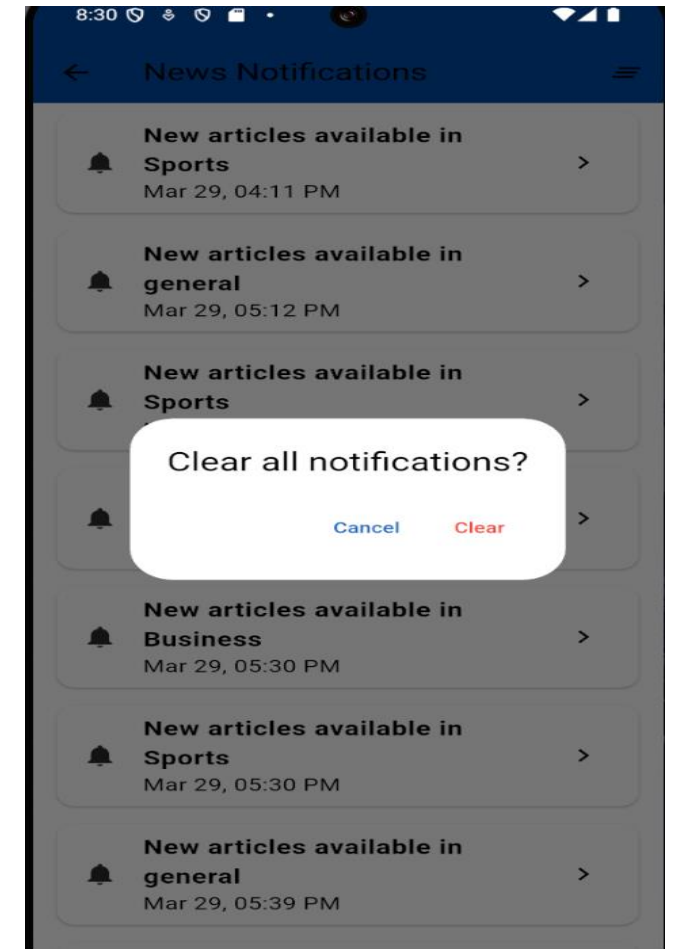
SEARCH & SAVED ARTIICLES
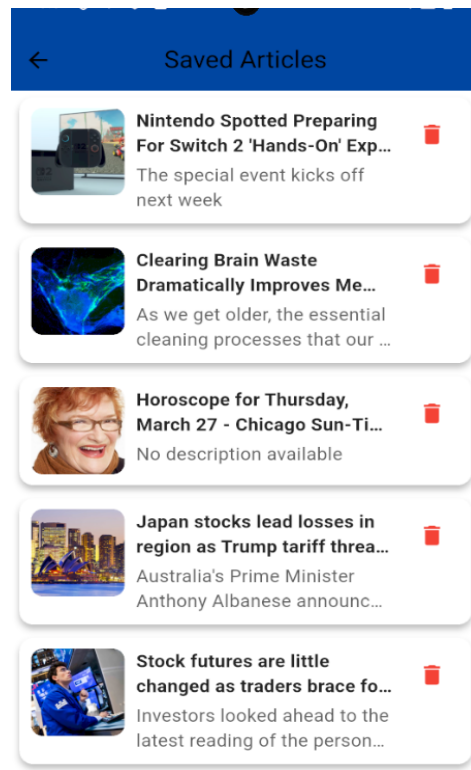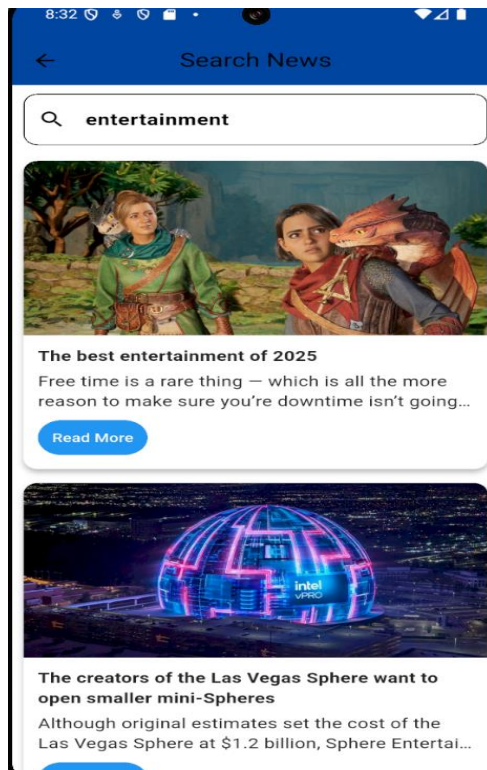
➤ The Search Page allows users to find news articles by entering keywords, filtering results by categories, and accessing trending topics. It provides real-time search suggestions and displays relevant articles dynamically. Users can refine their search results for a more personalized experience.

➤ The Saved Articles Page lets users bookmark their favorite news articles for later reading. Saved articles are stored persistently and can be accessed anytime, even offline. Users can also manage their saved list by removing articles they no longer need.

SETTINGS

➢ The Settings Page allows users to customize their app experience by adjusting various preferences. Users can switch between light and dark mode for better readability.

➢ The language selection option enables users to choose their preferred language for localization. Additionally, users can modify the font size to enhance readability based on their comfort.
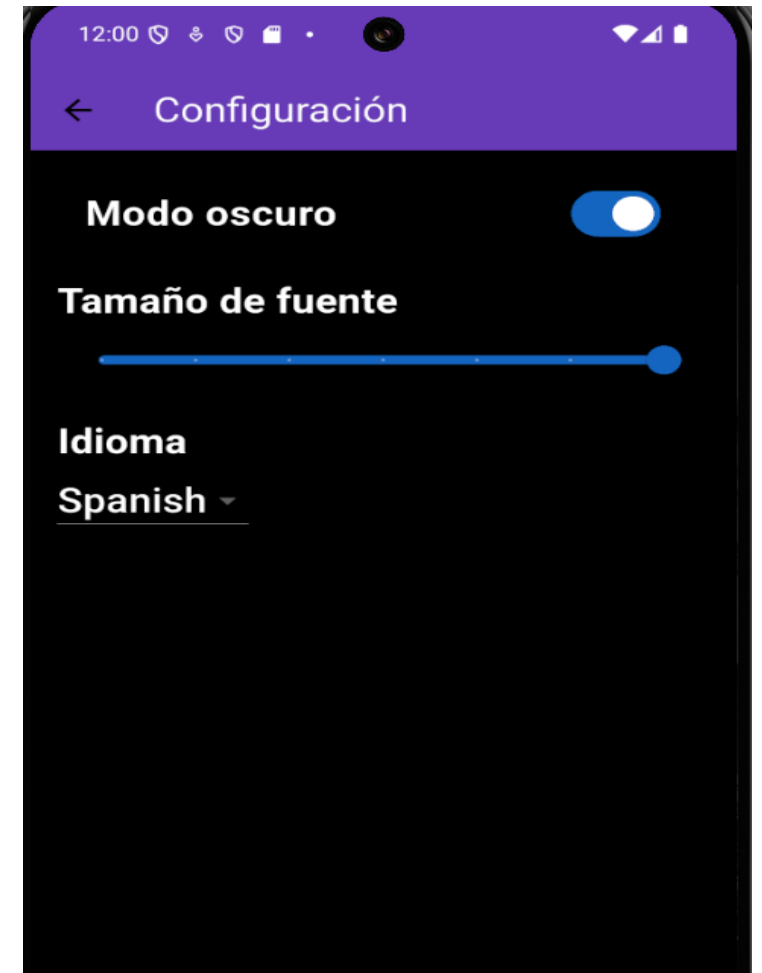
PROFILE
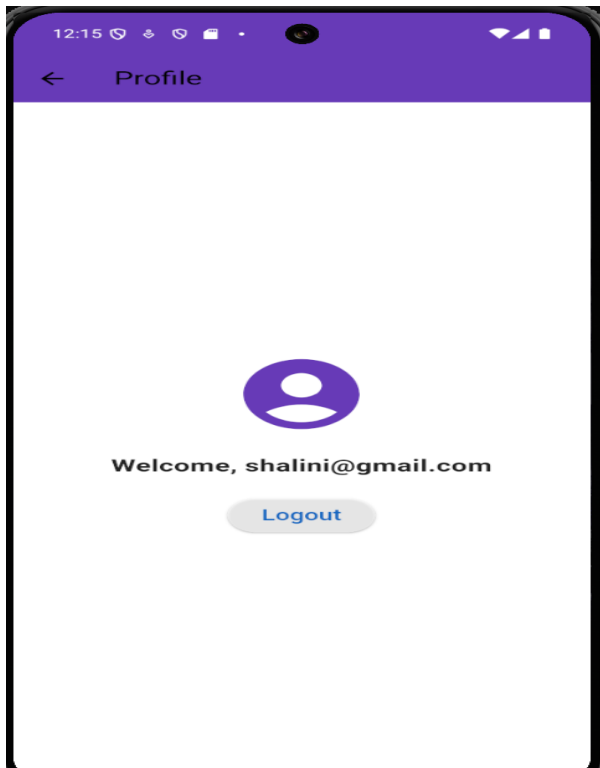
➤ The Profile Management page displays user information retrieved upon login. It allows users to view and update their personal details, such as name, email, and profile picture.

➤ Users can also manage their account settings, including password changes and linked authentication methods. This page ensures a personalized experience by storing user preferences securely.

THANK YOU