**Krit Text Suite**

***Abstract:*** Krit Text Suite is an intelligent word analysis mobile application developed using Flutter. The app provides users with comprehensive information about a word by utilizing multiple API endpoints and integrating data into an intuitive user interface. When a user enters a word in the application, a series of API calls are made to retrieve specific data categories, such as Definitions, Synonyms, Antonyms, Pronunciation, Syllables, Examples, and Rhymes. The backend APIs process these requests and return JSON responses. The app decodes this JSON data and dynamically categorizes the results, displaying them in an organized and user-friendly format. The application ensures seamless error handling by skipping any endpoint that fails to respond, while successfully retrieved data from other endpoints is displayed. A clear and responsive UI allows users to search for words and clear results with ease. Krit Text Suite leverages API-based integration and real-time data fetching, making it a valuable tool for linguistics, education, and content creation purposes.

**Use Case**

***Text-Based Query and Exploration Tool***

Krit Text Suite is a Flutter-based mobile application that allows users to enter a word and retrieve its definitions, synonyms, antonyms, pronunciation, syllables, examples, and rhymes.

**User Story**

***Word Search and Exploration***

As a language enthusiast, student, or writer, I want an application where I can search for detailed information about words, so that I can expand my vocabulary and improve my language skills.

**Scenario**

***Searching for Word Details***

Given a mobile application for word search, when a user enters a word in the search field and clicks on the "Search" button, then the system should:

1. Fetch word-related data like definitions, synonyms, antonyms, pronunciation, syllables, examples, and rhymes.
2. Display the results in an organized format.
3. Allow the user to clear the search field and results using the "Clear" button.

**Project Flow**

1. **App Launch**
   * The app displays a clean, user-friendly interface with a text input field, "Search" button, and "Clear" button.
2. **Search Functionality**
   * User enters a word in the input field and taps "Search."
   * App sends requests to the endpoints for the following details:
     + Definitions
     + Synonyms
     + Antonyms
     + Pronunciation
     + Syllables
     + Examples
     + Rhymes
   * Fetch results from each endpoint.
3. **Result Display**
   * The app organizes results into categories (e.g., "Definitions," "Synonyms," etc.).
   * Each result is displayed in a scrollable list format.
4. **Error Handling**
   * If the API fails or no data is available, the app skips the failed endpoint and continues fetching data from the remaining endpoints.
   * Displays a loading indicator while fetching data.
5. **Clear Functionality**
   * The user taps "Clear," which resets the text input and removes all displayed results.
6. **Exit and Reopen**
   * The app resets the state when reopened.

**Example User Journey**

1. User launches Krit Text Suite.
2. On the main screen, the user sees a text input field and two buttons: "Search" and "Clear."
3. User enters the word "inspire" and taps "Search."
4. The app displays:
   * **Definitions:** "To fill with the urge or ability to do or feel something."
   * **Synonyms:** "Motivate, Encourage."
   * **Antonyms:** "Discourage, Dissuade."
   * **Pronunciation:** "/ɪnˈspaɪər/."
   * **Syllables:** "in-spire."
   * **Examples:** "Her speech was meant to inspire confidence in her team."
   * **Rhymes:** "Admire, Entire."
5. User taps "Clear" to reset the screen.

**Future Enhancements**

* Add voice input for searching words.
* Provide a history of searched words.
* Save/Download the results as Image.
* Enable sharing of results through social media or messaging platforms.
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