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Flutter Video Feed App Assignment

Objective:

Develop a single-page application that mimics the functionality of a TikTok-style video feed. Users should be able to view videos, scroll vertically between them, and interact with the content through comments and sharing. This assignment will focus on implementing features like local storage of comments and a simulated bot interaction.

Assignment Breakdown:

1. **User Authentication:**
    i. Implement registration and login functionality using Firebase Authentication with email password or google sign in.
    ii. On successful login, navigate to the homepage of the app.
2. **Video Feed**
    i. Display a list of **20-30 static video links** in a vertically scrollable feed.
    ii. Each video should cover the screen and play when in focus.
    iii. Only one video should play at a time.
3. **UI Elements**
    i. Each video should display:
        1. A **Comment button**: Opens the comments page for the respective video.
        2. A **Share button**: Opens the system's share dialog with the video link as sharable content.
4. **Comment Feature**
    a. **Comment Page**:
        i. When the user clicks the Comment button, a new page/modal should open for that video.
        ii. The user should be able to type and send comments using a **Send button**.
    b. **Bot Interaction**:

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i. If the user doesn't type a new comment within **5 seconds** after sending one comment and keeping the comments UI/page open, a bot should automatically post a random comment.(Bot comment can be a randomly generated text)
ii. Bot-generated comments should appear on the same video.

c. **Storage**:
i. Comments (user and bot) should be saved locally using a **non-relational database** (e.g., Hive).
ii. Each comment should be tied to its respective video so that they can be retrieved correctly.

d. **Persistence**:
i. When the app is reopened, the saved comments for each video should be retrievable.

5. **Share Feature**
a. Clicking the Share button should open the native share dialog of the device.
b. The shared content should include the link to the respective video.
6. **State Management with Riverpod(or other):**
a. Use Riverpod(or other) to manage the app's state.
b. Structure the state management to be modular and easy to maintain.

7. **UI/UX Considerations:**
a. Design a clean and user-friendly UI.
b. Ensure responsive design to support various screen sizes.

Submission Requirements:

- Source code should be well-documented and submitted via a GitHub repository.
- Include a README.md file explaining the app's features, setup instructions, and any additional features you've implemented.

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- A short video demonstration (1-2 minutes) of the app's key features is encouraged but not required.
- Usable apk file for different architectures.

Assessment Criteria:

- **Functionality:** Does the app meet the required features?
- **Code Quality:** Is the code well-organized, commented, and easy to understand?
- **UI/UX:** Is the app visually appealing and easy to use?
- **State Management:** Effective use of Riverpod(or any other) for managing state.
- **Passion:** Any additional features or enhancements beyond the required functionality.

This assignment will challenge you to integrate authentication and implement effective state management as well as local storage, all while focusing on delivering a polished user experience.
The assignment will be closely reviewed as part of the technical interview process. Please ensure the work reflects your own understanding and effort. This is your chance to showcase your skills—good luck!

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