Mobile Developer – Technical Assessment

Objective

Build a simple Flutter mobile application that demonstrates your understanding of state management, clean architecture, and mobile development best practices.

Project Specification

- Application: Personal Task Manager

Develop a task management application with the following features:

Core Features

- Task List Screen: Display list of tasks with title, description, and completion status. Show an empty state when no tasks exist.
- Add/Edit Task Functionality: Create new tasks with title and description fields. Edit existing task information. Toggle task completion status.
- Delete Task: Remove tasks from the list. Display confirmation dialog before deletion.
- Data Persistence: Tasks must persist between app sessions. Implement local storage using Hive or SQflite.
- State Management: Use Riverpod (preferred) or Provider. Demonstrate proper state management patterns and best practices.
- Search capability

Technical Requirements

- Architecture: Implement clear architectural patterns. Separate business logic from UI components. Document architecture choice in README.
- Code Quality: Clean, readable code with consistent naming conventions. Proper error handling and edge case management. Meaningful comments for complex logic.
- UI/UX Design: Responsive and clear interface. Appropriate loading states and feedback where necessary. Clear error messages if necessary.

Deliverables

- GitHub Repository: Public repo with complete source code.
- README.md Documentation: Include app description, architecture, state management approach, challenges, and assumptions.
- APK File: Compiled release APK uploaded to Google Drive (public access). Include a link in README.
- Final Submission: Provide GitHub and Drive links, and estimated time spent.

Timeline

Estimated effort: 6–10 hours of development work.

Submission Instructions

Submit your completed work via email including the GitHub repository URL, Google Drive APK link (ensure public access), and any additional comments.

Questions and Support

If you have any questions about the requirements or need clarification, feel free to reach out. Document any assumptions made in your README file.

Good luck! We look forward to reviewing your submission.