TIERS LIMITED SUMMER INTERNSHIP 2024

MOBILE APP DEVELOPMENT

4th Mini Project

TODO App

TODO App Mini Project Assignment

Objective

Develop a TODO List application using Flutter that allows users to manage tasks with functionalities for adding, updating, deleting, marking as completed, and filtering tasks. Tasks will include a title, description, and status (completed or not).

Features:

1. **Task Model:**
   - Create a `Task` having `title`, `description`, and `status(complete/incomplete)`.
2. **User Interface Design:**
   - Design a user-friendly interface using Flutter widgets.
   - Main screen displays tasks categorized as "Incomplete" and "Completed".
3. **Adding Tasks:**
   - Create a dialog for adding new tasks.
   - Dialog includes input fields for task `title` and `description`.
   - Upon saving, add the task to the database and update the task list.
4. **Updating Tasks:**
   - Allow users to edit tasks by tapping on a task.
   - Implement an edit dialog prefilled with task details.
   - Save changes to the database and update the task list.
5. **Deleting Tasks:**
   - Provide a delete option for each task.
   - Confirm deletion with a dialog to prevent accidental deletions.
6. **Marking Tasks as Completed:**
   - Include a checkbox for each task to mark it as complete or incomplete.
   - Update task status in the database and move tasks between "Incomplete" and "Completed" lists accordingly.
7. **Viewing Task Details:**
   - Only show `title` and `status` on screen.
   - Show task `title, description, and status` when a task is pressed.
8. **Filtering Tasks:**
   - Add a search bar or filter option to search tasks by `title.`
   - Display filtered results dynamically as the user types.
9. **Persistence and Reliability:**
   - Ensure tasks persist across app sessions using SQLite database storage.
   - Handle exceptions and errors gracefully to maintain app reliability.

Submission Guidelines

- Ensure your code is well-commented and follows best practices.
- Test your app thoroughly to ensure it handles different scenarios properly.
- Submit your project lib folder and a complete video of your app.