To-Do List Application

Project Report

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1. Project Title

To-Do List Application with User Authentication and Task Management

2. Objective

To develop a user-friendly mobile/desktop application that allows users to manage their daily tasks efficiently — including adding, scheduling, marking as completed, and deleting tasks — with user-specific data storage.

3. Tools & Technologies Used

Programming Language: Python
Framework: KivyMD (for UI)
Database: SQLite / Local JSON storage
Libraries: datetime, kivy.uix, kivymd.uix components

4. Features Implemented So Far

■ User Authentication System
- Login and Signup screens using KivyMD forms.
- Validation for existing/new users.
- Secure storage of user credentials.

■ Task Management
- Users can add new tasks with title and optional description.
- Scheduling feature allows users to pick date/time using MDDatePicker.

- Mark as done functionality using checkboxes.
- Delete task option to remove completed or unwanted tasks.
- Tasks are stored per user, so each user sees only their own list.

■ User Interface
- Modern Material Design layout using KivyMD.
- Interactive lists, icons, and smooth screen navigation.
- Responsive layout for mobile and desktop.

5. Work Completed

- Login/Signup module built and tested.
- Main To-Do List screen designed with task list view.
- Functional add, mark, and delete task operations integrated.
- Scheduling system tested and debugged.
- Persistent data storage (SQLite/JSON) implemented successfully.

6. Work Pending / Future Enhancements

- Implement task editing and search functionality.
- Add push/local notifications for scheduled tasks.
- Improve UI responsiveness and theme customization.
- Integrate cloud sync (Firebase) for multi-device access.

7. Conclusion

The project successfully provides a functional and visually appealing task management system with user authentication. Future updates will focus on enhanced user experience, cloud support, and advanced productivity features.