Project: **Developing a To-Do List Application**

**1> Planning**

**A small startup decides to build a simple To-Do List application for users to manage their daily tasks. The project manager discusses the app's features, target audience, timeline, and budget with the team. They decide the app will have features like task creation, editing, deletion, and categorization.**

**2>Requirements Analysis**

* **Users should be able to add, edit, delete, and view tasks.**
* **Tasks should be categorized (e.g., Work, Personal, Urgent).**
* **The app should have a simple and user-friendly interface.**
* **Users should be able to set reminders for tasks.**

**3>Design**

**-Create wireframes and mockups of the app's user interface, showing how screens will look and function.**

**-Design the app's architecture, deciding on the technology stack (e.g., using React Native for the front-end, Node.js for the back-end, and a SQLite database). They also design the database schema to manage tasks and categories.**

**4>Implementation (Coding)**

**Front end Developers-implement features like adding, editing, and deleting tasks using React Native.**

**Backend Developers-Develop the server-side logic using Node.js, handle task data, and connect the app to the SQLite database.**

**Database Administrators: Implement the designed database schema to store task-related data.**

**5. Testing**

**Unit Testing: Developers write tests for individual components to ensure they function correctly.**

**Integration Testing: The team tests how different parts of the app work together, ensuring that the front-end properly communicates with the back-end.**

**6. Deployment**

**The team deploys the To-Do List app on platforms like the Apple App Store and Google Play Store. They set up a back-end server on a cloud service like AWS and ensure the database is live and connected.**

**7. Maintenance**

**After the app is launched, users report a few bugs and request new features, like task prioritization. The development team works on fixing the bugs and releasing updates. They also monitor the app's performance, handle user feedback, and ensure the app is compatible with new OS versions.**