TP Board – Project Flow and Applications

# Flow of the Project (Step-by-Step in One Line)

1. User visits the TP Board app via Firebase Hosting.

2. User signs in using Firebase Authentication (Google or email).

3. User dashboard loads with personal or shared Kanban boards.

4. User creates tasks that are stored in Firestore under the selected board.

5. Tasks are displayed in columns (To Do, In Progress, Done) using React components.

6. User drags and drops tasks across columns using react-beautiful-dnd.

7. Zustand manages app state for smooth UI interactions and task data.

8. Firestore updates tasks in real-time for all collaborators on the board.

9. Optional backend logic runs via Firebase Cloud Functions (like notifications or cleanup).

10. The app is deployed and accessed globally through Firebase Hosting.

# Applications of TP Board

1. Student Project Tracking: Manage assignments and group work effectively.

2. Team Collaboration: Coordinate team tasks with shared real-time boards.

3. Performance Management: Track task status and team contributions.

4. Agile Development: Support sprints, backlogs, and progress tracking.

5. Personal Productivity: Organize personal goals or daily task lists.

6. Small Business Workflow: Manage small-scale operations and task delegations.