Title: Daily Tracking App - Critical Pre-Development Steps

Summary: This document summarizes the five most important steps to complete before starting development of the Daily Tracking App. Each step focuses on laying a strong foundation for design, data management, code organization, library setup, and AI functionality to ensure a clean and efficient build process.

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1. Detailed Wireframes and Basic Style Guide

Wireframes:

- Sketch rough layouts for:
    - Onboarding Screens
    - Daily Dashboard
    - Manage/Create Trackables
    - History/Insights Screens
- Focus on layout and user flow clarity.

Style Guide:

- Define:
    - Primary color palette (e.g., calming blue, teal)
    - Secondary accent color
    - Font styles and sizes (headings, body text)
    - Button styles (pill, rounded rectangles)
    - Card/container styles (shadows, borders)

Goal:

- Maintain consistency across the app.
- Save time later when applying design polish.

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2. Database Schema Design

Key Tables to Define:

- `DailyReports`
- `Trackables`
- `SubPages`
- `Insights`

Relationships:

- Daily Reports link to Trackables and Sub-Reports.

Goal:

- Plan data structure before coding to prevent rewrites.

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3. Folder and File Structure Planning

Proposed Folder Layout:

/components
/screens
/services (SQLite setup, API calls)
/contexts (global state management)
/assets (icons, images)
/navigation (screen flow)
/utils (helpers, constants)

Goal:

- Ensure scalable, maintainable code organization from day one.

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4. Core Libraries Selection and Light Testing

Libraries to Install:

- React Navigation (screen transitions)
- Expo SQLite (local data storage)
- Victory Native (data visualizations)
- Context API or lightweight state management (Zustand or Recoil)
- Formik or react-hook-form (for input forms)

Goal:

- Set up core dependencies.
- Run basic examples to confirm smooth integrations before building real features.

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5. Initial AI Prompt Engineering

Example Prompt Format: "Given the following user day summary: {habits completed, mood rating, notes}, generate a 1–3 sentence analysis explaining mood influences and one suggestion for tomorrow."

Goal:

- Have AI prompts structured early.
- Streamline OpenAI integration during the insight generation phase.