

Title: Daily Tracking App - Technical Stack and UX Blueprint

Summary: This document outlines the proposed technical architecture (tech stack) and initial UX mockups for core user flows, including onboarding, daily usage, creating new trackables and sub-pages, and viewing historical insights.

1. Technical Stack Overview

Frontend:

- React Native (for cross-platform iOS/Android)
- Expo (for easier builds, faster testing)

Backend / Local Storage:

- SQLite (via Expo SQLite or direct integration)
- (Optional later) RealmDB if scaling requires faster local querying

AI Integration:

- OpenAI API (GPT-4-turbo or successor)
- Custom structured prompts for mood analysis

Authentication & Cloud (Planned for v2):

- Firebase Authentication (email/password, Google OAuth)
- Firebase Firestore (user data cloud backup)

Data Visualization:

- Victory Native (charts and graphs)
- Reanimated and Gesture Handler (smooth transitions)

Notifications (Future Feature):

- Expo Notifications (local reminders)
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2. UX Mockups and User Flows

2.1 Onboarding Flow

Screen 1: Welcome

- Brief intro: "Track your habits, mood, and life."
- [Get Started Button]

Screen 2: Core Setup

- Choose tracking style: [Single Daily Mood] vs [Segmented Moods]
- Select a few habits from presets or [Create Custom Habit]

Screen 3: Customization

- Add new custom trackables
- Toggle Daily vs Non-Daily tracking

Screen 4: Ready

- "You're ready to start tracking!"
 - [Go to Dashboard]
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2.2 Daily Usage Flow

Daily Dashboard:

- Top: Today's Date + Mood Tracker (Slider 1-10 or emoji picker)
- Middle:
 - Daily Trackables (Checklist of True/False, Time, Number fields)
 - Add Extra Activities (Search/Add Non-Daily Items)
- Bottom:
 - Quick Notes Field
 - [Submit Today's Report]

Submit Behavior:

- Save entry locally
 - If online, send to AI for Insight generation
 - Insight displays once available
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2.3 Creating New Options and Sub-Pages

Screen: Manage Trackables

- View all trackables
- [Add New Trackable] button

New Trackable Creation:

- Name the trackable
- Select type: [True/False] [Time] [Number] [Short Text] [Multi-Select]
- Set Daily vs Non-Daily toggle
- (Optional) Add Sub-Form:
 - Name fields inside the sub-form (e.g., Golf Score, Course Name)

Saving:

- Saves new trackable immediately
 - Adds to user's tracking dashboard
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2.4 Viewing Historical Insights

History Tab:

- Calendar View (color-coded by mood)
- Toggle: [Numerical] [Boolean] [Mood]

Numerical Data View:

- Line/Bar Graphs
- Timeframe Selection: [Week] [Month] [6M] [Year] [All Time]
- Average values displayed

Boolean Data View:

- Habit streaks
- Completion percentages
- Short generated text insights

Mood History:

- Mood over time graph
- Overlay filters (e.g., "show days I exercised")

Insights Tab:

- List of AI-generated daily insights
 - Feedback option (Agree/Disagree + Optional Comment)
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