Product Requirements Document (PRD) - Activity Tracker

1. Executive Summary

Product Name: Activity Tracker

Version: 1.0 (MVP)

Last updated: July 7, 2025

Target Platform: iOS (iPhone)

Development Timeline: 3-7 days

Purpose: A minimal iOS app that allows users to quickly track activity completion

with easy screen-level access and historical insights.

2. Product Overview

2.1 Problem Statement

Users need a simple way to track when they complete activities (like playing tennis, reading, exercising) without the complexity of full-featured apps. Current solutions either require too many steps or clutter other apps (like using Health app for non-health activities).

2.2 Target User

- · Individuals who want to maintain awareness of their activity patterns
 - People with recurring habits (hobbies, health goals, learning routines)
- Users who prefer minimal, focused tools over feature-heavy apps
- People who value quick, frictionless interaction

2.3 Success Metrics

- Time from screen to marking activity complete: <5 seconds
- Daily active usage for activity tracking
- User retention through consistent activity logging

3. Core Features

3.1 In-App Features

Activity Creation Flow

- 1. Open app → "Add Activity" button
- 2. Enter activity name / icon (required)
- 3. Select category from dropdown:
 - Hobby (default)
 - Health (default)
 - Career (default)
 - Education (default)
 - Custom categories (user-defined)
- 4. Optional details text field
- 5. Configure screen display settings
- 6. Save activity

Main Dashboard

- List view of all created activities
- Each activity shows:
 - Name and category
 - Days since last completion
 - Total completion count
 - Quick complete button

Sort by user-defined priority ranking

Activity Management

- Edit activity details
- · Delete activities
- · Reorder priority ranking
- View completion history with filters:
 - Past 7 days
 - Past 31 days
 - Past 3 months
 - Past 12 months

3.2 Widget Features

Widget Design

- Size: Full screen width, height of two app icon rows
- Layout: Horizontal swipe navigation between activities
- Content per activity:
 - Activity name
 - Icon/emoji representation
 - Days since last completion (e.g., "-1D", "-5D")
 - Completion button (circle icon)

Widget Behavior

- Shows activities based on user-defined ranking
- Swipe left/right to navigate between activities
- Single activity = no swipe functionality
- Tap completion button = immediate marking (visual feedback: circle icon change from grey to green)

- Button kept showing green after completion
- Button resets to grey after today (use current timezone where user lives in, for MVP, using ETC)

3.3 Data Management

- Storage: Local device storage (Core Data)
- Completion Records: Full history maintained
- Data Structure: Activity → Multiple completion timestamps
- Backup: None for MVP (local only)

4. Technical Specifications

4.1 Platform Requirements

- Minimum iOS Version: iOS 14.0 (for widget support)
- Target Devices: iPhone (all screen sizes)
- Development Environment: Xcode with Swift/SwiftUI
- Widget Framework: WidgetKit

4.2 Architecture Overview

- Frontend: SwiftUI for main app interface
- Widget: WidgetKit with SwiftUI
- Data Layer: Core Data for persistence
- State Management: ObservableObject/StateObject pattern

4.3 Data Model

Activity Entity:

- id: UUID
- name: String
- category: String
- optionalDetails: String?

createdDate: DatepriorityRank: InticonName: String?

Completion Entity:

- id: UUID

- activityId: UUID (relationship)

- completedDate: Date

- source: String ("widget" or "app")

5. User Experience Flow

5.1 First-Time Setup

- 1. App installation
- 2. Onboarding (optional skip)
- 3. Create first activity
- 4. Add widget to home screen

5.2 Daily Usage

- Quick Complete: Home screen widget → tap completion button → visual feedback
- 2. **Review Progress:** Open app → view dashboard with days since last completion
- 3. Add New Activity: App → "Add Activity" → creation flow
- 4. **View History:** App → select activity → view completion history

5.3 Edge Cases

- No activities created: Show empty state with "Add Activity" CTA
- Widget with no activities: Show "Open app to add activities"
- Multiple rapid completions: Prevent duplicate entries within same day

6. Success Criteria

6.1 MVP Success Metrics

- Functionality: All core features working without crashes
- Performance: Widget updates within 2 seconds of completion
- **Usability:** Complete activity tracking flow in under 5 seconds
- Data Integrity: All completions accurately recorded and displayed

6.2 Post-MVP Considerations

- User feedback integration
- Performance optimization
- App Store publication preparation
- Social media showcase preparation

7. Development Phases

Phase 1: Core App (Days 1-2)

- Activity creation and management
- Main dashboard with completion tracking
- Basic data persistence

Phase 2: Widget Integration (Days 3-4)

- Widget implementation
- Home screen integration
- Cross-communication between app and widget

Phase 3: Polish & Testing (Days 5-7)

- UI/UX refinement
- Edge case handling

Testing across different scenarios

8. Technical Constraints

8.1 MVP Limitations

- Local storage only (no cloud sync)
- Single device support
- No notifications/reminders
- Basic category system
- No data export functionality

8.2 Future Enhancements (Post-MVP)

- iCloud sync for multi-device support
- Custom notification reminders
- · Advanced analytics and insights
- Data export/import capabilities
- Social sharing features

9. Risk Assessment

9.1 Technical Risks

- Widget complexity: First-time WidgetKit implementation
- Data sync: Ensuring app and widget data consistency
- **Performance:** Widget refresh reliability

9.2 Mitigation Strategies

- Start with simple widget functionality
- Implement robust data management early
- Test widget behavior extensively

• Use proven SwiftUI patterns

10. Definition of Done

10.1 MVP Completion Criteria

	Activity creation and management functional
	Widget displaying activities with completion buttons
	Data persistence working correctly
	App and widget communicating properly
	Basic UI/UX polish complete
	Testing completed without major bugs
П	Ready for personal use and social media showcase