Requirements Specification: Epic 1 - Core User Onboarding and Dashboard

SaaS Productivity/Retention Tool MVP

December 2, 2025

Abstract

This document outlines the detailed functional and non-functional requirements for Epic 1, which focuses on establishing the minimum viable product (MVP) foundation: user authentication, team creation/joining, and the core personalized activity dashboard. This epic enables the core loop of system access and initial value delivery.

1 Functional Requirements (FR)

Functional requirements specify the behavior of the system.

FR 1 (Admin Authentication and Role Assignment)**.** The system MUST allow a new user to sign up and be automatically assigned the **Admin** role upon initial registration.

FR 2 (Team Creation)**.** The Admin MUST be able to create a new team by specifying a unique team name and an optional description. This action MUST persist the team data in the `teams` Firestore collection.

FR 3 (Invitation Mechanism)**.** Upon team creation, the system MUST generate a unique, single-use, time-limited invitation link or code that the Admin can share with team members.

FR 4 (Team Joining)**.** A new user MUST be able to join an existing team by either clicking a valid invitation link or entering the unique code during the sign-up process.

FR 5 (User Profile Association)**.** Upon successful joining, the new user's profile in Firestore MUST be updated to include the `teamId` and be assigned the **Member** role.

FR 6 (Personalized Core Dashboard Display)**.** The Core Dashboard MUST display a welcoming interface that includes the authenticated user's name and their associated team name.

FR 7 (Metric Display (Mock Data))**.** The Dashboard MUST initially display three key activity metrics for the user using mock placeholder data:

1. Tasks Completed (`Integer/Integer`)

2. Focus Time Score (`Percentage`)

3. Collaboration Score (`Decimal, 0-10`)

2 Non-Functional Requirements (NFR)

Non-functional requirements specify quality attributes of the system.

2.1 Security and Authentication

NFR 1 (Data Security)**.** All stored data in Firebase/Firestore MUST be protected by security rules, ensuring that users can only read or write their own profile data, and can only read data relevant to their assigned `teamId` (private collection model).

NFR 2 (Invitation Expiration)**.** Invitation links/codes MUST expire automatically within a configurable period (e.g., 7 days) to prevent unauthorized access.

NFR 3 (Authentication Reliability)**.** The user authentication process (Sign In/Up) MUST maintain an uptime of 99.9% throughout the Sprint 1 duration.

2.2 Performance

NFR 4 (Page Load Time)**.** The primary Dashboard screen MUST load and display all key metric cards in under **1.5 seconds** on a typical broadband connection.

NFR 5 (Response Time)**.** Database operations for team creation and user joining MUST complete in under **500 milliseconds**.

2.3 Usability and Design

NFR 6 (Responsiveness)**.** All screens, particularly the Dashboard, MUST be fully responsive, ensuring optimal viewing and interaction on devices ranging from small mobile phones (360px width) to desktop screens. This includes gracefully adapting the dashboard's metric card layout.

NFR 7 (Aesthetics)**.** The application MUST adhere to modern web design standards, utilize a consistent font (e.g., Noto Sans or Inter), and employ Tailwind CSS classes for aesthetics, including rounded corners and appropriate use of shadows.

2.4 Technology and Environment

NFR 8 (Hosting)**.** The application MUST be a single-file web application (`.html` or `.jsx`/`.tsx`) and utilize standard web technologies (HTML, CSS, JavaScript).

NFR 9 (Storage)**.** The system MUST utilize Firebase Firestore for persistent data storage, leveraging the provided global variables (`__app_id`, `__firebase_config`, `__initial_auth_token`).