# Cross-Platform App Functional Design Document

## 1. Document Overview

This document defines the functional requirements and specifications for the development of a cross-platform mobile application.

## 2. Purpose and Scope

- Purpose: Describe the intended use and business objectives of the app.
- Scope: Specify target platforms (iOS, Android, Web, etc.) and high-level feature set.

## 3. Target Audience

Identify the target users, user personas, and supported devices.

## 4. App Features

| Feature | Description | Priority |
| --- | --- | --- |
| User Authentication | Sign up, login, and password reset functionality. | High |
| Profile Management | Edit profile details and upload avatar. | High |
| Main Dashboard | Centralized screen for user interactions and content display. | High |
| Notifications | In-app and push notifications. | Medium |
| Settings | Account and app configuration options. | Medium |

## 5. User Stories

- As a user, I can create an account using email or social login.
- As a user, I can view and update my profile information.
- As a user, I receive real-time notifications on important updates.

## 6. Non-Functional Requirements

- Performance: App should load initial screen within 2 seconds.
- Accessibility: App should be usable by assistive technologies.
- Security: Data should be encrypted in transit and rest.
- Localization: Support for multiple languages.

## 7. Navigation Flow

1. Launch Screen

2. Authentication Screens
3. Main Dashboard
4. Profile / Settings / Other Features

## 8. Integration Points

- REST API backend for data storage and retrieval.
- Push notification service integration.
- Third-party authentication (Google, Apple, Facebook).

## 9. Assumptions and Constraints

- Single codebase using cross-platform framework (e.g., React Native, Flutter).
- App must comply with App Store and Google Play guidelines.

## 10. Open Issues

- Design for tablets and large screens TBD.
- Exact feature list subject to stakeholder review.

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