

# Project Title - MYMEDIMAP

## Software Requirements Specification (SRS)

### 1. Introduction

The **Medical Record Organizer** is a mobile and web-based application designed to help users store, manage, and access their personal medical information in a centralized, secure, and user-friendly manner. The system will enable patients to record prescriptions, set medication reminders, manage upcoming appointments, store emergency contact details, and maintain a digital archive of their health records.

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### 2. Purpose

The purpose of this application is to:

- Provide a single platform for storing medical data securely.
  - Help users remember their medication schedules through timely reminders.
  - Facilitate appointment booking and tracking.
  - Provide quick access to emergency medical details for healthcare professionals.
  - Ensure portability of medical history for better treatment outcomes.
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### 3. Scope

The **Medical Record Organizer** will include the following:

- User authentication and profile management.
- Medication tracking and reminders.
- Appointment scheduling and management.
- Prescription storage with image upload.
- Emergency contact and health info storage.
- Cloud synchronization via Firebase.

- Local and push notifications.
- Cross-platform accessibility (Android, iOS, Web).

The application will be developed using:

- **Frontend:** React Native (mobile), React (web).
  - **Backend:** Firebase Authentication, Firebase Firestore, Firebase Cloud Messaging.
  - **Hosting:** Firebase Hosting / App Distribution.
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## 4. Functional Requirements

### 4.1 User Authentication

- Sign up with email and password.
- Login with credentials.
- Remember me functionality.
- Secure password storage.
- Profile update and deletion.

### 4.2 Medication Management

- Add, edit, and delete medication entries.
- Set dosage, frequency, and time of reminders.
- Local and push notification alerts.
- Daily medication list display.

### 4.3 Appointment Management

- Book, edit, and cancel appointments.
- Calendar integration for easy date selection.
- Store doctor's name, date/time, location, and notes.

- Notification reminders before appointments.

#### 4.4 Prescription Storage

- Upload prescription images (JPEG/PNG).
- Store details such as doctor name, date, medicines.
- Cloud-based storage with retrieval feature.

#### 4.5 Emergency Information

- Store blood group, allergies, and medical conditions.
- Save doctor contacts with one-tap call functionality.
- Display emergency info in a dedicated quick-access screen.

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### 5. Non-Functional Requirements

- **Security:** End-to-end encryption for sensitive medical data.
- **Usability:** Intuitive UI for both tech-savvy and non-technical users.
- **Performance:** App should load within 3 seconds on standard networks.
- **Reliability:** 99% uptime for cloud services.
- **Portability:** Compatible with Android 8+, iOS 13+, and modern browsers.

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### 6. Database Structure (Firebase Firestore)

Collection	Fields
Users	userID, name, email, phone, emergencyContact
Prescriptions	userID, date, doctorName, medicines[], imageURL
Appointments	userID, doctorName, dateTime, location, notes
Reminders	userID, medicineName, dosage, time, repeatType

**EmergencyInfo**    userID, bloodGroup, allergies, doctorContacts

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## 7. Hardware and Software Requirements

### Client-Side

- Android phone (min. 2GB RAM) or iPhone (min. iOS 13)
- Web browser with JavaScript enabled
- Internet connectivity

### Server-Side

- Firebase Authentication
  - Firebase Firestore Database
  - Firebase Cloud Messaging
  - Firebase Storage
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## 8. Work Division

- **Frontend:** UI design, form creation, display lists, local notifications.
  - **Backend:** Firebase setup, authentication, database CRUD operations, push notifications.
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## 9. Future Enhancements

- AI-based prescription reading from uploaded images.
  - Integration with wearable health devices.
  - Multi-language support.
  - Offline mode with local storage sync.
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## 10. Conclusion

The **Medical Record Organizer** aims to revolutionize personal healthcare management by providing a secure, intuitive, and centralized platform for storing and managing medical information. Through real-time reminders, appointment scheduling, and emergency info accessibility, it improves health management and user convenience.