

## **Mobile Chat App (Expo / React Native)**

### **1. Purpose**

An internal chat app for users to send messages, share files, and voice notes in real-time.

#### **Key Principles:**

- No data stored locally on the device
  - All messages, files, and voice notes fetched from server
  - Stateless client – clears all data on logout or disconnect
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### **2. Features**

#### **Core Features**

- **User Login** – only pre-created users can log in
- **Chat List** – view list of users/threads
- **Text Messaging** – real-time messages via WebSocket
- **File Sharing** – upload documents (stored on server)
- **Voice Notes** – record and send audio clips (streamed only)

#### **Optional Enhancements (Future)**

- Typing indicators
  - Read receipts
  - Push notifications
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### **3. Technology Stack**

- React Native (Expo)
- WebSocket client (Socket.IO)
- Expo AV (voice recording)
- Expo Document Picker (file upload)
- React Context API (in-memory state management)

No local storage (AsyncStorage, SQLite, SecureStore)

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#### 4. MVP Timeline (Mobile App)

Task	Duration
User authentication & basic chat	1–2 weeks
Text messaging, chat list, in-memory state	1 week
File sharing & voice notes	1–2 weeks
Testing & deployment	1 week
<b>Total: ~3–5 weeks</b>	