**📌 Core Features & Detailed Functional Requirements**

These requirements ensure that the app is **fully functional, user-friendly, and efficient**.

**1️⃣ Call & SMS Tracking**

**🟢 Missed Call Tracking**

**Requirements**

* Detect **missed calls** in real-time.
* Show **caller ID** (if contact exists in phonebook).
* Show **call time, duration, and date**.
* **Categorize missed calls**:
  + **Unanswered** (User didn't pick up)
  + **Rejected** (User manually declined)
  + **Ignored** (User didn't interact)
* **Call Log History**: Store last 30, 60, or unlimited call records.
* Show **call attempts** (multiple missed calls from the same number).

**Example UI**

| **Caller Name** | **Number** | **Time** | **Status** | **Actions** |
| --- | --- | --- | --- | --- |
| John Doe | +123456 | 10:30 AM | Unanswered | Call Back / SMS |
| Alex Tech | +987654 | 9:15 AM | Rejected | Call Back / SMS |

**🟡 Unread SMS Tracking**

**Requirements**

* Detect **new unread SMS**.
* Show **sender name, number, and preview of SMS**.
* Show **SMS timestamps**.
* Allow users to **read, delete, or reply** to SMS.
* Group SMS by sender or category.
* Option to **mark messages as read**.

**Example UI**

| **Sender** | **Number** | **Time** | **Preview** | **Actions** |
| --- | --- | --- | --- | --- |
| Bank XYZ | +111222 | 2:30 PM | "Your OTP is..." | Read / Delete |
| Jane Doe | +333444 | 12:10 PM | "Hey, call me back!" | Reply / Call |

🔴 **iOS Limitation**: iOS does not allow **reading SMS logs**, so this feature may be limited.

**2️⃣ Smart Notifications**

**🟢 Push Notifications for Missed Calls & SMS**

**Requirements**

* Instant **push notifications** when a call is missed or SMS is received.
* **Custom alerts**:
  + **Important contacts only** (e.g., boss, family).
  + **Silent mode bypass** (for emergency contacts).
* Show **action buttons**:
  + "Call Back"
  + "Reply via SMS"
  + "Dismiss"

**Example Notification**

**Missed Call from Alex Tech (10:30 AM)**  
[🔄 Call Back] [💬 Reply] [❌ Dismiss]

**New SMS from Jane Doe (12:10 PM)**  
"Hey, call me back!"  
[📖 Read] [✏️ Reply] [❌ Dismiss]

**3️⃣ Call & SMS Analytics & Insights**

**🟢 Reports & Statistics**

**Requirements**

* **Daily, Weekly, Monthly Reports**:
  + Total missed calls
  + Total unread SMS
  + Most frequent callers
  + Peak hours for missed calls
* **Call Heatmap**: Show time periods with the highest missed calls.
* **Pie Chart / Graphs** for analysis.

**Example: Most Frequent Callers**

| **Contact** | **Missed Calls** | **Last Call** |
| --- | --- | --- |
| John Doe | 5 | 1 day ago |
| Alex Tech | 3 | 3 days ago |

**4️⃣ Auto Responses & Actions**

**🟢 Auto-SMS for Missed Calls**

**Requirements**

* Send automatic SMS replies when a call is missed.
* Allow **custom responses** (e.g., "I’m busy, will call later").
* **Conditional auto-replies**:
  + **Time-based** (Only send auto-replies from 9 AM - 5 PM).
  + **Contact-based** (Send auto-replies only to VIP contacts).
  + **Location-based** (Send different messages at work/home).

**Example Auto-Reply Settings**

| **Contact** | **Auto-Reply Message** | **Active Time** |
| --- | --- | --- |
| Everyone | "I'm currently busy, I'll call you later." | 24/7 |
| Boss | "I'm in a meeting, please text me." | 9 AM - 6 PM |

**5️⃣ Call & SMS Data Backup & Sync**

**🟢 Backup & Restore Feature**

**Requirements**

* **Local storage backup** (SQLite).
* **Cloud backup** (Google Drive, iCloud).
* **Auto-sync across devices** (multi-device access).
* **Data export/import** (CSV file for call logs).

**Example Backup Options**

* **Backup Frequency**: Daily, Weekly, Monthly.
* **Restore Options**: Selective restore (missed calls only, SMS only).

**6️⃣ Multi-Language Support**

**🟢 Localization for Global Users**

**Requirements**

* App interface should support **multiple languages**.
* Detect **system language** and adjust UI automatically.
* Users should be able to **manually switch languages**.

**Example Supported Languages**

✅ English  
✅ Spanish  
✅ French  
✅ German  
✅ Japanese  
✅ Chinese

**📌 Example Use Cases**

1️⃣ **A Business Owner**

* Tracks **missed calls from clients**.
* Sends **auto-reply SMS** to important customers.
* Uses **analytics to improve response time**.

2️⃣ **A Busy Professional**

* Enables **silent mode bypass for family calls**.
* Auto-replies **"I'm in a meeting"** during work hours.

3️⃣ **A Traveler**

* Uses **call & SMS backup** to avoid losing important contacts.
* **Syncs call history** across devices.

**🔹 Next Steps**

Would you like a **wireframe or UI design** to visualize the app? 😊