## **Functional Requirements Document (FRD) for Circle Up Chat Application**

**1. Introduction:** This document outlines the functional requirements for the "Circle Up" chat application. The application is designed to provide a seamless communication experience, including real-time messaging, group chats, story sharing, and voice/video calling.

**2. Purpose:** The purpose of this document is to define the functionalities and expected behaviour of the "Circle Up" application to ensure alignment with business goals and user needs.

**3. Scope:** The "Circle Up" application will include the following features:

* One-on-one and group chat.
* Multimedia sharing (images, videos, voice messages).
* Story sharing with auto-expiry.
* Contact management.
* Voice and video calling.
* Push notifications.
* Secure user authentication.

**4. Functional Requirements:**

**4.1 User Authentication**

* Users can sign up/login using a phone number or email.
* Profile creation with name, status, and profile picture.
* Password reset and account recovery options.

**4.2 Chat Features**

* One-on-one messaging.
* Group chat functionality with admin controls.
* Message delivery indicators (sent, delivered, read).
* Typing indicators.
* Ability to delete and edit messages.

**4.3 Multimedia Sharing**

* Send and receive images, videos, and voice messages.
* Preview media before sending.
* Download and save received media.

**4.4 Story Sharing**

* Users can upload images/videos as stories.
* Stories disappear after 24 hours.
* View count and reactions on stories.

**4.5 Voice & Video Calls**

* One-on-one and group calling.
* Call status indicators (ringing, missed, ended).
* Mute, hold, and speaker options.

**4.6 Contact Management**

* Add new contacts manually or sync with phone contacts.
* Create and manage groups.
* Block/unblock contacts.

**4.7 Notifications**

* Real-time push notifications for new messages and calls.
* Customizable notification settings.

**5. Non-Functional Requirements:**

* **Performance:** Fast message delivery and call connectivity.
* **Scalability:** Support for increasing user base.
* **Security:** End-to-end encryption for messages and calls.
* **Cross-Platform Compatibility:** Available on Android and iOS.
* **Usability:** Intuitive and user-friendly UI.

**6. User Roles & Permissions:**

* **Regular Users:** Can send messages, make calls, and share media.
* **Group Admins:** Can add/remove users, delete messages, and control group settings.

**7. Assumptions & Constraints:**

* Users must have an active internet connection.
* Data privacy regulations must be followed (e.g., GDPR compliance).
* App should support multiple languages in future updates.

**8. Success Metrics:**

* 99.9% uptime for messaging and calling services.
* Average response time below 1 second.
* High user engagement with chat and story features.

**9. Conclusion:**

This FRD serves as a guide for the development team to ensure that "Circle Up" meets its functional goals efficiently and effectively.

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