**Chat Application**

Requirements specification & Design

* + ***Introduction***

**What is the requirements for specification & design?**

A specification is a document that specifies, in a complete, precise, verifiable manner, the requirements, design, behavior, or other characteristics of a system, and often, the procedures for determining whether these provisions have been satisfied

* + **Purpose**
* However, the purpose of this project is to develop a chat application.
* The objective of this process is as follows;
* **Secure, real-time messaging platform** for seamless communication.
* Supports **one-to-one and group chats, media sharing, and voice/video calls**.
* Ensures **privacy, encryption, and cross-platform accessibility** for users.
* **Stakeholder Statement**

Our chat application project is designed to provide seamless and secure communication for users. The key stakeholders include:

* **Users:** Expect a fast, reliable, and privacy-focused messaging experience.
* **Developers & Designers:** Responsible for building and maintaining an intuitive, scalable, and secure platform.
* **Business Owners & Investors:** Focus on monetization, growth, and long-term sustainability.
* **Regulatory Bodies:** Ensure compliance with data protection laws and security regulations.

This project aims to balance stakeholder needs while fostering innovation and user engagement.

* **User Stories**

**1. User Registration & Authentication**

* As a **new user**, I want to create an account using my email or phone number so that I can access the chat application securely.
* As a **returning user**, I want to log in using my credentials so that I can continue my conversations.
* As a **user**, I want to reset my password if I forget it so that I can regain access to my account.

**2. Messaging & Chat Features**

* As a **user**, I want to send and receive messages in real time so that I can communicate efficiently.
* As a **user**, I want to create group chats so that I can communicate with multiple people at once.
* As a **user**, I want to send images, videos, and files so that I can share media with my contacts.
* As a **user**, I want to delete or edit my messages so that I can correct mistakes or remove content.

**3. Notifications & Status**

* As a **user**, I want to receive push notifications for new messages so that I stay updated.
* As a **user**, I want to see when my contacts are online or typing so that I can engage in real-time conversations.
* As a **user**, I want to set my status (e.g., "Busy", "Available") so that others know if I am available to chat.

**4. Privacy & Security**

* As a **user**, I want to block or report to users so that I can avoid unwanted interactions.
* As a **user**, I want my messages to be end-to-end encrypted so that my conversations remain private.
* As a **user**, I want to control who can see my profile and last seen status so that I can maintain my privacy.

**5. Additional Features**

* As a **user**, I want a dark mode option so that I can reduce eye strain in low-light environments.
* As a **user**, I want to search for messages in a chat so that I can quickly find important information.
* As a **user**, I want to customize my chat background so that I can personalize my experience.
* **Requirements**
* Functional
* Non-functional

A table of information

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