

# Project Charter Document

**Project Title:** SCICOPUB

**Project Manager:** Oleksii Hnativ

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## 1. Project Purpose and Objectives

The purpose of this project is to develop a web-based real-time messaging platform that will enable seamless communication and collaboration among users. The platform aims to enhance interaction, improve communication speed, and support team collaboration.

### Objectives:

- Create an intuitive, user-friendly interface.
- Ensure reliable, high-speed messaging capabilities.
- Implement secure communication features (encryption, data protection).
- Provide cross-platform compatibility (desktop and mobile).
- Achieve high user engagement and satisfaction.

## 2. Problems to Solve

- Communication delays in virtual teams.
- Lack of effective tools for real-time collaboration.
- Difficulty in managing large-scale group communications.
- Security concerns regarding personal data and messages.

## 3. Goals and Expected Outcomes

- **Goals:**
  - Deliver a fully functional chat platform with core messaging and collaboration features.
  - Ensure high performance, security, and reliability.
  - Achieve a user satisfaction rate of at least 85% within 6 months of launch.
- **Expected Outcomes:**
  - A working chat platform with integrated features such as real-time messaging, file sharing, notifications, and customizable user settings.
  - Successful deployment on both desktop and mobile platforms.
  - Adoption by the target audience and measurable improvements in user engagement.

## 4. Target Audience

Understanding the target audience is essential to designing a platform that meets their needs. The following segments have been identified:

a. **Businesses and Corporations**

- **Need:** Organizations require a communication tool for seamless interaction between employees, teams, and departments. A real-time messaging platform can greatly improve productivity by providing an immediate, easy-to-use way to communicate.
- **Features for Businesses:** The platform should support large group chats, file sharing, video calls, and integrations with other enterprise software (CRM, project management tools). Security and compliance features (data encryption, audit logs) are also critical.
- **Example:** A company like **Salesforce** could use the platform to enable communication between sales teams working remotely across different time zones.

b. **Educational Institutions**

- **Need:** Schools, universities, and online learning platforms need an efficient communication system for students, teachers, and staff to collaborate. Real-time messaging can help with coursework discussions, teacher-student interaction, and group projects.
- **Features for Education:** Features like study group creation, private messaging between students and faculty, file sharing for assignments, and integration with learning management systems (LMS).
- **Example:** A university could use this chat platform to facilitate communication between professors and students, especially for remote learning or blended learning models.

c. **Remote Teams and Freelancers**

- **Need:** Freelancers and remote teams rely heavily on digital communication tools to stay connected with clients or collaborators from different geographic locations. They need tools that are efficient, reliable, and easy to integrate into their workflow.
- **Features for Remote Teams:** Customizable notification settings, team collaboration features, integrations with task management tools, and project-specific channels for easy tracking of ongoing work.
- **Example:** A remote software development team spread across multiple countries could use this chat platform for both project discussions and social interactions, ensuring smooth collaboration.

d. **Casual Users**

- **Need:** Casual users may be looking for an easy-to-use messaging platform that offers the core features of real-time communication, such as text messaging, emojis, multimedia sharing, and group chats.
- **Features for Casual Users:** Simple design, multimedia support (images, videos, GIFs), and user-friendly mobile apps for easy access.
- **Example:** Friends or hobby groups who need an accessible chat tool to stay in touch and share photos, videos, and plans.

## 5. Stakeholders

Stakeholders are individuals or groups who have an interest in the success of the project. Their feedback and buy-in are essential for achieving project objectives and ensuring its success. Here are the key stakeholders for this project:

- **Developers and Technical Team**
  - This group includes software engineers, backend developers, front-end developers, and system architects. They are responsible for building the platform, addressing technical challenges, and implementing security features, APIs, and integrations.
- **Designers and UX/UI Team**
  - Designers will create the visual interface and ensure that the platform is intuitive, user-friendly, and accessible. Their work will have a significant impact on user engagement and satisfaction.
- **End Users**
  - As the primary consumers of the product, their feedback will guide many design and feature decisions. Understanding their needs and preferences is critical to shaping the platform.
- **Marketing and Sales Team**
  - They will play a pivotal role in promoting the platform and attracting new users. Their insights into user pain points and desired features will inform the development process.
- **External Partners**
  - **Third-party service providers** (e.g., cloud hosting, security firms, or API providers) will play a role in ensuring the chat platform runs smoothly. Their involvement could influence the platform's scalability, performance, and security.

## 6. Project Constraints

Understanding project constraints is essential for setting realistic expectations and preventing scope creep. Here are the critical constraints for this project:

- **Time Constraints**
  - **Challenge:** Tight deadlines to meet market demands and beat competitors to launch. Development phases, testing, and bug-fixing need to be carefully scheduled.
  - **Solution:** Implement agile sprints and project milestones to track progress and adjust the project timeline as necessary. Regular reviews and feedback loops will help identify bottlenecks early.
- **Budget Constraints**
  - **Challenge:** Limited financial resources could restrict the team size, marketing efforts, or the ability to incorporate all desired features.
  - **Solution:** Focus on MVP (Minimum Viable Product) first, prioritizing core features with the potential for future scaling. Also, identify cost-effective third-party services and hosting solutions.

- **Technical Constraints**

- **Challenge:** Ensuring compatibility with various platforms and devices while also maintaining high scalability for user growth. Technical limitations such as bandwidth or storage capacity may also arise.
- **Solution:** Opt for a modular architecture, allowing for future improvements or changes in platform requirements. Use cloud services for scaling the platform based on real-time user demand.

- **Legal and Compliance Constraints**

- **Challenge:** Ensuring that the platform complies with data privacy laws (GDPR, CCPA) and other legal regulations that may apply to the target audience, especially in different countries.
- **Solution:** Consult with legal experts during the development phase to ensure that the platform adheres to all necessary regulations and maintains data security protocols.

## **7. Approval and Sign-off**

The Project Charter document serves as the formal agreement to begin the project and outlines the project's scope, goals, and execution plan. By signing this document, the project stakeholders approve the outlined plan.