

CHAPTER 1

INTRODUCTION

1.1. DEFINITION:

Callify Meet is an innovative video conferencing platform designed to facilitate seamless virtual meetings and collaboration. Built with cutting-edge technologies, this project replicates the functionalities of popular video conferencing tools like Zoom, providing users with a comprehensive suite of features for effective communication.

Key Features of Callify Meet

- **User Authentication:** Utilizing **Clerk**, Callify Meet implements robust authentication mechanisms, allowing users to securely log in through various methods, including social sign-ins and traditional email/password combinations. This ensures that user data is protected while providing a smooth onboarding experience.
- **Real-Time Communication:** The integration of **GetStream** enables real-time video and chat functionalities, allowing users to engage in live discussions without delays. This feature is crucial for maintaining the flow of communication during meetings.
- **Meeting Management:** Users can easily create, join, and manage meetings. The platform supports functionalities such as screen sharing, recording meetings, and managing participants, ensuring that all aspects of a meeting are under control.
- **Responsive Design:** Built with **Tailwind CSS**, Callify Meet follows responsive design principles, ensuring that the application is accessible and visually appealing across various devices and screen sizes. This enhances user experience, making it easy to join meetings from desktops, tablets, or smartphones.
- **Personal Meeting Rooms:** Each user has a unique personal room with a dedicated link, allowing for instant meetings that can be shared with others. This feature simplifies the process of starting and joining meetings, making it user-friendly.
- **Past Meetings Access:** Users can view recordings of past meetings, providing a valuable resource for review and reference. This feature is particularly useful for teams that need to revisit discussions or decisions made during previous meetings.

1.2 Technology Stack

Callify Meet leverages a modern tech stack that includes:

- **Next.js:** A powerful React framework that enables server-side rendering and static site generation, enhancing performance and SEO.



Figure 1.2.1 – Next Js

- **Tailwind CSS:** A utility-first CSS framework that allows for rapid design and customization, ensuring a responsive and visually appealing user interface.



Figure 1.2.2 - TailwindCSS

- **Clerk:** A user authentication service that simplifies the login process while maintaining high security standards.



Figure 1.2.3 - Clerk

- **Get Stream:** A real-time communication API that facilitates video conferencing and chat functionalities, ensuring reliable and efficient interactions.



Figure 1.2.4 – Get Stream