BOOM VIDEO CONFERENCING

Team Members:

- Sreejith Menon
- Girish Budhrani
- Marisha Dhimar
- Harsh Patel
- Rahul Waghulde

Introduction:

Boom provides tutoring and other educational support via a remote platform designed specifically to engage and captivate learners and empower educators.

This program can be built using webRTC OR socket.io & peer.js which provides a free video conference. This website will be used as a tutoring tool between students and teachers, allowing users to start a video call or join an existing video connection created by another user in order to communicate with them. This will be a high-definition video call.

Core Features:

- **Introduction**: This page will offer a walkthrough of the website's primary features.

- **Login and signup**: This page will allow users to create a profile on our website, or if they are already a user, they may login to the website directly.

- **Video conference**: This feature allows the user to set up a video conference between the tutor and the student. We add real-time voice and video to our web app
One of a kind real time video application by creating bespoke video experiences optimized to work across network conditions worldwide. Bringing educators and tutors together for 1:1 tutoring sessions, interactive virtual classrooms and secure exam proctoring.

- **Profile:** This page will display all of the information about a specific person, including the profile picture and video conferencing history (video conferencing

history available only to the account owner), and the user can change the visibility, for example, if the user does not want his or her date of birth to be displayed publicly, he or she can change the visibility to private.

- **Meetings:** Allows users to create a new meeting or join an existing meeting. Meeting capabilities that make it easy to start, join, and collaborate across any device. Robust security settings ensure disruption-free meetings. Encryption, role-based security, Passcode protection. HD video and audio. Clear audio with advanced background noise suppression. Support users across all devices and major browsers with SDKs for JS, iOS, and Android

- **Control Audio/Video:** The microphone and video can be turned on and off with this function.

- **Boom Chat.** This functionality will allow users to send and receive text messages in real time.

Extra Features:

- **Multiple participants:** This feature will allow the host to organize a meet between one and many users, meaning that more than two persons will be able to attend the classroom.

- **Settings page:** This function allows the user to adjust the mix sensitivity of the microphone as well as configure the virtual background.

- **Contacts.** A user can add the participants to a contact list so that they can simply start and invite a user to a video meeting the next time they wish to do so.

- **Virtual background.** Lets users control the look and feel of their video experience with virtual backgrounds.

- **Record video.** Record video for future reference and securely store media by generating encrypted recordings.

GitHub:

https://github.com/GABudhrani/boom-video-conferencing.git