VIDEO CHATTING WEBSITE

A PROJECT REPORT

Submitted By:
Avish S K   4NM19IS041
Ashish Salian   4NM19IS034

N.M.A.M. INSTITUTE OF TECHNOLOGY NITTE
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING AND
INFORMATION SCIENCE ENGINEERING.

<u>CONTENTS</u>

ACKNOWLEDGEMENT

We would like to thank Team Abhyuday for making us aware of the opportunity to do an internship with Exposys Data Labs.

We would like to thank Exposys Data Labs for guiding us along with this Project

1.ABSTRACT

This website is developed using CSS , Python and JavaScript programming languages and Django framework. Nowadays developing a website is very useful and all are willing to learn it. This website tells you about the features of the Video Calling Website and how you can connect people just my a click in website and socialize yourself with people far away from you.

2.INTRODUCTION

Build a video calling website with Django and the Agora Video Web SDK. This project will include the following features: Group and peer to peer video calling, full controls such as muting your mic, turning your camera off and displaying usernames.

We used Django and the Agora Video Web SDK. Django is a high-level Python web framework that enables rapid development of secure and maintainable website and Agora Web SDK provides a JavaScript and Typescript library. Powered by WebRTC, it enables you to establish and manage audio and video communications or live broadcast services from a web browser.

2.1 FEATURES AND BENEFITS

- ➢ More Engaging than Audio Conferencing
- ➢ More Efficient
- ➢ Saves money on travelling
- ➢ Multiple Webcam Capabilities
- ➢ Admin has the authority to add or delete a participant
- ➢ High quality video and audio

3.FUNCTIONAL REQUIRMENTS

3.1General Requirements

- ➢ Idea and vision ,it's important to have everything in a clear structure that is easy for us to follow
- ➢ It is important to have a particular colour scheme that needs to be featured throughout the website.
- ➢ Should be specific on the font to be used within the design
- ➢ Contents images logos are important to do the website.
- ➢ Stable network plays a major role in video chatting.

4. Non functional requirements

4.1 Hardware requirements

Processor	Intel Core i5
Hard Disk	Above 1 data Byte
RAM	Above 512 RAM

1.1 Software Requirements

Operating System	Windows 11
Frontend	CSS and JavaScript

Backend	Django
Language	CSS, JavaScript.
Editor used	Visual Studio Code

1. IMPLEMENTATION

This is a website named as **myChat** . It has a login page and Room page .Login page consists of Room Name field, Participant name Field and Join Stream Button. Room Page which consists of multiple video streaming screens and contains mainly three buttons which are mic, video on\off , leave . We have also added feature for admin to add or remove the participant from video chatting .

2. CONCLUSION

This application will be very user friendly to communicate among the people around the world in one click.

THANK YOU