PROJECT TITLE:

# Video chatting website

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ABSTRACT:

## A website where you can connect with your friends and have one to one video chat with them. It would be fun and you will get to understand how we can send video streams through a connection.

## WebRTC video chat application:

## HTML

## CSS

## JAVA SCRIPT

## BOOTSTRAP

## DJANGO

WebRTC:

• WebRTC is a free and open-source project providing web browsers and mobile applications with real-time communication via simple application programming interfaces.

• WebRTC serves multiple purposes, they provide powerful multimedia capabilities to the Web, including support for audio and video conferencing, file exchange, screen sharing, identity management, and interfacing with legacy telephone systems, etc.

• It allows access to devices – we can use a microphone, a camera and share screen with help from WebRTC and do all of that in real-time. In simple terms WebRTC enables audio and video communication to work inside web pages. This is the basic idea on which this project works.

If you enter name, users will be given a unique token for the video calling session to share with friend. Otherwise, users will not be able get the token for video calling.

Hardware Requirements

Computer with suitable ram space

Software Requirements

Front-end

* HTML
* CSS
* Bootstrap
* JavaScript

Back-end

* Django

Code Editor

* Visual Studio Code

IMPLEMENTATION

* Install Visual Studio Code (Code Editor)

Visual Studio Code: <https://code.visualstudio.com/Download>

* Designing the webpage

We designed the frontend using HTML, CSS, JavaScript and Bootstrap. Django for backend.

* HTML: Stands for Hypertext Markup Language. It is the standard language for creating web pages. It describes the structure of a web page with a series of elements and tags and tells the browser how to display the content

* CSS: Stands for Cascading Style Sheets. This describes how HTML elements are to be displayed on-screen and any other media. CSS can be used to change the font size to responsiveness of the website in regards to various devices.
* Bootstrap: Bootstrap is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular HTML, CSS and JS framework. The bootstrap Stable versions are B3 and B4 while the B5 is the newest out of it all.

* JavaScript: JavaScript is a programming language that can be implemented in the web pages to make them more interactive. You can use it check or modify the contents of the forms, change images open new windows and write dynamic page content.

* Django: Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It’s free and open source.