

# Real Time Chat Application

This application is built using SocketIO, NodeJs, HTML and CSS.

## Installation

### Running Locally

Make sure you have Node.js and npm install.

- Clone or Download the repository

```
git clone https://github.com/tanmayiitj/PCS-II-Project-Chat-Application
$ cd PCS-II-Project-Chat-Application
```

- If not clone then, Download RAR File Extract the zip. Run the VS code in that folder and follow the below steps
- Install Dependencies

```
npm install
npm i install node.js
npm i install socket.io
npm i install -g nodemon
```

- Run HTML File

Run the html file with right clicking and selecting open in live server (VS Code, install VS code Live Server extension )

- Start the Application

```
$ cd .\nodeserver\
nodemon index.js
```

Application runs from localhost:8000.

- Microphone Access

In order to make speech recognition active allow Microphone access

## Socket

Having an active connection opened between the client and the server so client can send and receive data. This allows real-time communication using sockets. This is made possible by Socket.io.

The client starts by connecting to the server through a socket(maybe also assigned to a specific namespace). Once connections is successful, client and server can emit and listen to events.

Enjoy Chatting Guys !!!!