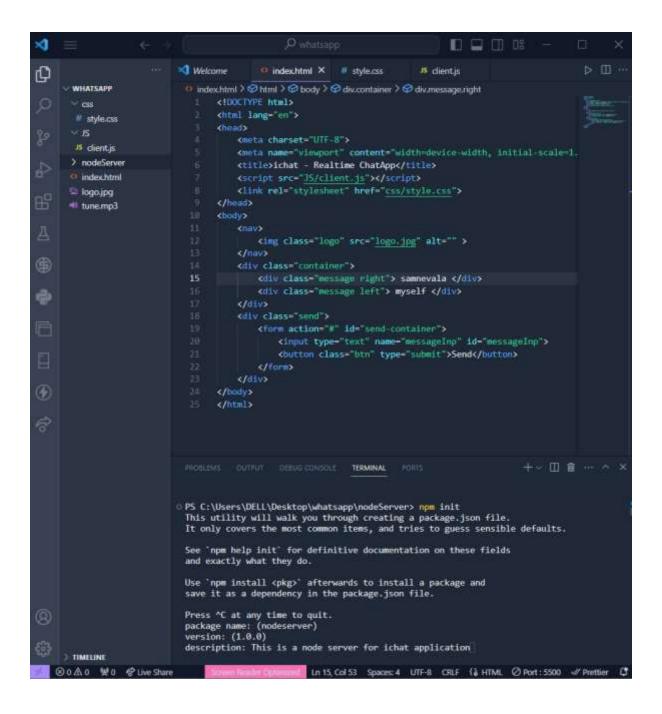
HOW I CREATED A CHAT APP WITH NODEJS AND SOCKET IO?



The front end is completed first, which is how I want my chat application to use HTML for the information you want to make visible on the website and CSS to style the information, such as where you want to view what, as shown in the following steps.

- The first step would be to display all of the items in the body by setting the height of the body to 100vh, which will cover the entire page. I've also created a backdrop of green and white using CSS styling called linear-gradient.
- Second, add a logo and centre it with CSS styling by using display: flex and margin auto to move the logo to the centre of the page. Determine the height and width of your logo.
- Then, create a container in which you'll be building left and right message boxes, so that when a user sends you a message, it appears on the right side and when you send a message, it appears on the left side.
- After that, the send box is formed, which will direct you to send the message you typed in the input bar. This send box is made up of two div: messageinp, where you type the message you want to send, and button, which is a send button click, where the message you wrote is sent to the user and appears on the left side of the container.



- Now, create a folder called nodeServer and open a terminal window by typing cd within the nodeServer folder. Write the command, for example, npm init (node package manager); this npm init command will guide you through the process of establishing a package.json file. This package.json file is significant because it stores important metadata about a project that is required before publishing to NPM. It also defines functional attributes of a project that npm uses to install dependencies, run scripts, and identify the package's entry point.
- Some of the question asked will be description that you wanna give to your website . About the author i.e who is the author / creater and many more .

• npm i socket.io helps install the socket.io to be used in NodeJs.

THE JS COMMAND FOR SERVER SIDE WITH EXPLAINATION

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• PS C:\Where\DELL\Desktop\whatsapp\nodeServer> number install : focus nodemon

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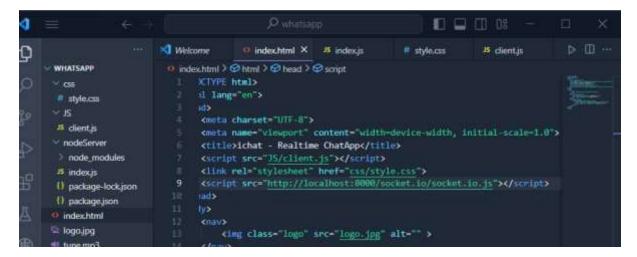
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You'll have to first install the nodemon tool that will develop Node.js based application by automatically restarting the application whenever there is a change in the file or directory to do this follow the following steps

- npm install -g -force nodemon
- nodemon filename as abode

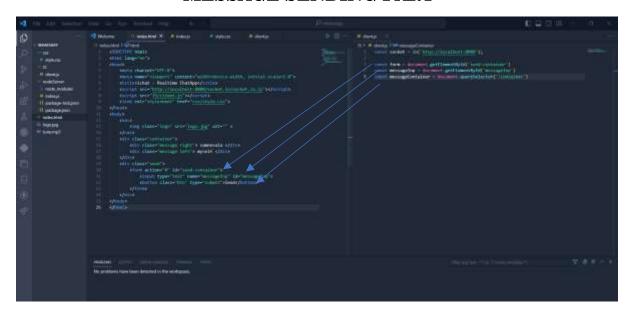
BUILD CLIENT – SERVER CONNECTION



<script src = https://localhost:8000/socket.io/socket.io.js></script>

- This above Script helps building the connection between client side and server side that is who sends the message and who receives the message.
- Make sure you wrote the above command before src = "JS/client.js" part

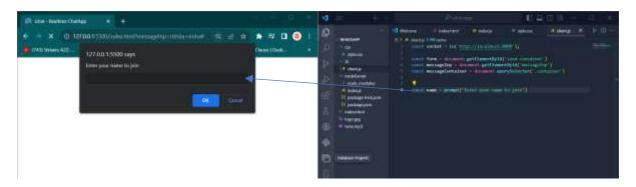
MESSAGE SENDING PART



- These arrow shows how we connected client side to html side i.e.whenever form, will go to send-container at html side
- Again, messageInp will go to messageinput side which is a box we made to input message that needs to be sent



• This send button will send the message or broadcast the input message to the users joined out there.



This command will help you join by your name taking it as an input unless you write your name and click ok you won't be able to join the chat.

HOW TO ADD THE JS PART

```
| Section | Process | Proc
```

- New-user-joined whenever a user has joined, name of the user joined the chat text is up on the chat box.
- Broadcast means all the joined users would know if any change has occurred if the user has joined / left / sent a message in the chat box.
- Delete user helps deleting the user from DB as he/she has left the chat.
- Constant (const) name gives a top-up message to write the name of the user whosoever want to join the chat box.
- Append helps to add the changes that has happened during the chat when received a message / someone left the chat box / someone has joined the box.
- Message = message-Input value means write the message whatever you want to write / send to the chat-box.
- Position is for where and which message will appear i.e. if I'm sending someone a message it should appear on the left side whereas if someone sends me a message it should appear at the left side of the chat-box.
- Audio play plays the tune of receiving the message whenever the message has been received i.e. if the message appears at the right side of the chat-box it should play the sound.
- Event (e) submit. Whenever you send a message in the chat-box and click to the submit button / press enter, the message would be sent and the message input box after submitting / sending the message will go back to it's original / previous state when the box was empty.
- The emit method allows you to emit / call an event, which caused all the call-backs
 that are registered to the event to 'fire' / 'set' and is get called to perform the task
 allocated.