**CODE FOR CREATING APP:**

* **Backend code for server:**

from flask import Flask,jsonify,request

from flask\_socketio import SocketIO

users=[

{

'id':2,

'name':'anne',

'age':20

},

{

'id':1,

'name':'bill',

'age':21

},

{

'id':3,

'name':'cathy',

'age':22

},

]

app=Flask(\_\_name\_\_)

app.config['SECRET\_KEY']='2947d87n2938749b8b237'

socketio=SocketIO(app)

@app.route('/')

def index():

return app.send\_static\_file('index.html')

@app.route('/users')#decorater to call the function

def getUsers():

return jsonify(users)#converting string in json format

@app.route('/users/<id>')

def getuser(id):

user=list(filter(lambda u:str(u['id'])==id,users))

return jsonify(user)

@app.route('/users/sort')

def getusersSorted():

field=request.args.get('field')

usersSorted=sorted(users,key=lambda u:u[field])

return jsonify(usersSorted)

@socketio.on('msg')

def handleMessage(data):

#print(data)

socketio.emit('push',data,broadcast=True,include\_self=False)

if \_\_name\_\_=='\_\_main\_\_':

socketio.run(app)

* **Front end code in HTML:**

<!DOCTYPE html>

<html>

<head>

<title>Flask Demo</title>

<script type="text/javascript" src="//cdnjs.cloudflare.com/ajax/libs/socket.io/2.2.0/socket.io.js"></script>

</head>

<body>

<h1>Flask Demo</h1>

<button onClick=getUsers()>Get Users</button>

<br/>

<input id="inputBox"></input>

<button onClick=send()>Send</button>

<script src='static/main.js'></script>

<div id="chatBox"></div>

</body>

</html>

* **Front end code in Java Script:**

console.log("hello")

var socket = io();

function send(){

var inputBox=document.getElementById('inputBox')

socket.emit('msg',inputBox.value)

inputBox.value=''

}

socket.on('push',function(data){

var chatBox=document.getElementById('chatBox')

chatBox.innerHTML+='<p>'+data+'</p>';

})

function getUsers(){

fetch('/users').then(function(res){

res.json().then(function(data){

console.log(data)

})

})//passing server respone to this function

}