

Chat install tutorial

First you will need to install node.js onto your computer.

<https://nodejs.org/en/>

You can find the download at the URL above.

Next, create an empty directory that will hold EXPRESSJS, Jade, and Socket.io dependencies.

In that directory create a file called package.json with the following:

```
{
  "name": "RealTimeWebChat",
  "version": "0.0.0",
  "description": "Real time web chat",
  "dependencies": {
    "socket.io": "latest",
    "express": "latest",
    "jade": "latest"
  },
  "author": "developer"
}
```

Navigate to this directory from the command line (terminal) and run the following command

```
$ npm install
```

You now have everything you need to get your express app running.

Create a file named index.js and paste the following code into it.

```
*****
```

```
var express = require("express");
var app = express();
var port = 3700;
```

```
// gets the socket.io server to listen first
var io = require('socket.io').listen(app.listen(port));
```

```
io.sockets.on('connection', function (socket) {
  socket.emit('message', { message: 'welcome to the chat' });
  socket.on('send', function (data) {
    io.sockets.emit('message', data);
  });
});
```

```
console.log("Listening on port " + port);
```

```
// display the template page
```

```

app.set('views', __dirname + '/tpl');
app.set('view engine', "jade");
app.engine('jade', require('jade').__express);
app.get("/", function(req, res){
    res.render("page");
});

```

// look for the chat.js file here

```

app.use(express.static(__dirname + '/public'));

```

This will set up server to run the chat application listening on port 3700, and provides a route for the server to use.

Next create a new directory named tpl and create a file called page.jade in it with the following code:

html

head

title= "Real time web chat"

script(src='/chat.js')

script(src='/socket.io/socket.io.js')

body

#content(style='width: 500px; height: 300px; margin: 0 0 20px 0; border: solid 1px #999; overflow-y: scroll; background-color:lightgray; font-family: Courier New; font-size:24px;')

.controls

input#field(style='width:350px; background-color:lightgray; font-family:Courier New; font-size:20px;')

input#send(style='font-family:Courier New; font-size:20px;' type='button', value='send')

Now your html page should be set up to display the chat module.

Lastly, create a new directory called public and add the following code to a file named chat.js:

```

window.onload = function() {

```

```

    var messages = [];

```

```

    var socket = io.connect('http://localhost:3700');

```

```

    var field = document.getElementById("field");

```

```

    var sendButton = document.getElementById("send");

```

```

    var content = document.getElementById("content");

```

```

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

```

```

        if(data.message) {

```

```

            messages.push(data);

```

```

            var html = "";

```

```

            for(var i=0; i<messages.length; i++) {

```

```

    html += '<b>' + ('Server') + ': </b>';
    html += messages[i].message + '<br />';
  }
  content.innerHTML = html;
  // Set the text back to nothing.
  field.value = "";

  } else {
    console.log("There is a problem:", data);
  }
});

sendButton.onclick = function() {
  document.title="Message sent";
  console.log(name);
  if(name.value == "") {
    alert("Please type your name!");
  } else {
    var text = field.value;
    socket.emit('send', { message: text });

  }
};
}
*****

```

Now if you navigate to the root folder and run

\$ node index.js

Then type localhost:3700 into your browser the chat module will be displayed!

Congratulations you have installed the chat module!