





What is our GOAL for this CLASS?

In this class, we have learned about **SMTP** and how to send emails with the Gmail account using **nodemailer**

What did we ACHIEVE in the class TODAY?

- Learned about **SMTP**
- Learned to send emails through **Gmail** using **nodemailer**

Which CONCEPTS/ CODING BLOCKS did we cover today?

- We used the **Simple Mail Transfer Protocol**
- We used the nodemailer Module

PRO-C221



Understanding concepts:

Simple Mail Transfer Protocol:

Simple Mail Transfer Protocol is an internet-based standard communication protocol for electronic mail transmissions. This protocol is used by all email services out there, including Gmail.

The Nodemailer Module

The Nodemailer module makes it easy to send emails from your computer. The Nodemailer module can be downloaded and installed using npm.



How did we DO the activities?

1. Update package.json to add nodemailer

```
"name": "video-chat-app",
"version": "1.0.0",
"description": "",
"main": "index.js",
▶ Debug
"scripts": {
  "test": "echo \"Error: no test specified\" && exit 1"
},
"author": "",
"license": "ISC",
"dependencies": {
  "body-parser": "1.19.0",
  "ejs": "^3.1.6",
  "express": "^4.17.1",
  "nodemailer" "^6.6.3"
  "peer" "^0.6.1",
  "socket.io": "^4.1.3",
  "uuid": "^8.3.2"
```



2. Update yarn.lock to add nodemailer

```
"@types/component-emitter@^1.2.10":
    version "1.2.10"
     resolved "https://registry.yarnpkg.com/@types/component-emitter/-/component-emitter-1.2.10.tgz#ef
     integrity sha512-bsjleuRKWmGqajMerkzox19aGbscQX5rmmvvXl3wlIp5gMG1HgkiwPxsN5p070fBDKTNSPgojVbuY1+H
"@types/connect@*":
    version "3.4.35"
    resolved "https://registry.yarnpkg.com/@types/connect/-/connect-3.4.35.tgz#5fcf6ae445e4021d1fc221
    integrity sha512-cdeYyv4KWoEgpBISTxWvqYsVy444D0qehiF3fM3ne10AmJ62RSyNkUnxMJXHQWRQQX2eR94m5y1IZyDw
    dependencies:
          "@types/node" "*"
"@types/cookie@^0.4.1":
    version "0.4.1"
     resolved "https://registry.yarnpkg.com/@types/cookie/-/cookie-0.4.1.tgz#bfd02c1f2224567676c154519
    integrity \ sha512-XW/Aa8APYr6jSVVA1y/DEIZX0/GMKLEVekNG727R8cs56ahETkRAy/3DR7+fJyh7oUgGwNQaRfXCun0-fintegrity \ sha512-XW/Aa8APYr6jSVVA1y/DEIZX0/GMKLEVekNG727R8-fintegrity \ sha512-XW/AA8APYr6jSVVA1y/DEIZX0/GMKLEVekNG727R8-f
"@types/cors@^2.8.12", "@types/cors@^2.8.6":
    version "2.8.12"
    resolved "https://registry.yarnpkg.com/@types/cors/-/cors-2.8.12.tgz#6b2c510a7ad7039e98e7b8d3d659
    integrity sha512-vt+kDhq/M2ayberEtJcIN/hxXy1Pk+59g2FV/ZQceeaTyCtCucjL2Q7FXlFjtWn4n15KCr1NE2lNNFhp
"@types/express-serve-static-core@^4.17.18":C
    version "4.17.24"
     resolved "https://registry.yarnpkg.com/@types/express-serve-static-core/-/express-serve-static-co
     integrity sha512-3UJuW+Qxhzwjq3xhwXm2onQcFHn76frIYVbTu+kn24LFxI+dEhdfISDFovPB8VpEgW8oQCTpRuCe+0zJ
    dependencies:
         "@types/node" "*"
         "@types/qs" "*"
```

In server.js add require('nodemailer')

```
const { ExpressPeerServer } = require("peer");
const peerServer = ExpressPeerServer(server, {
    debug: true,
});

app.use("/peerjs", peerServer);

var nodemailer = require('nodemailer');
```



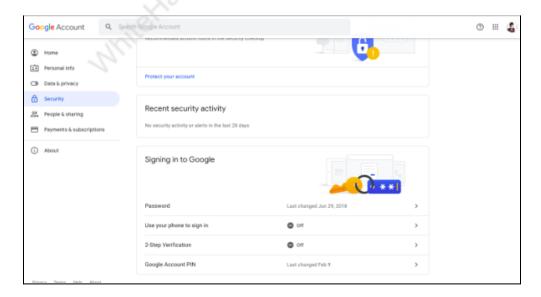
4. Create a **transporter** for our mailer in which we are calling the **nodemailer.createTransport()** function.

Parameters for the function:

- port Port number that it should use 587
- host smtp.gmail.com for Gmail's SMTP
- auth That contains a
 - o user: email ID
 - o pass: password through which it should send an email
- **secure true**, to send encrypted emails

```
const transporter = nodemailer.createTransport({
   port: 587,
   host: "smtp.gmail.com",
   auth: {
      user: 'apoorv.goyal@whitehatjr.com',
      pass: '',
   },
   secure: true,
});
```

5. Use **app passwords** to generate **passwords** that can be used in our apps to access Google services such as Gmail:

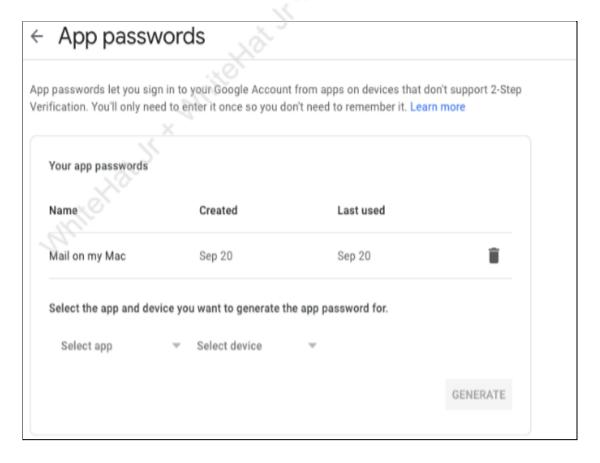




 Ensure that your 2-Step Verification is turned on in the Signing into Google section



• Click on App Passwords

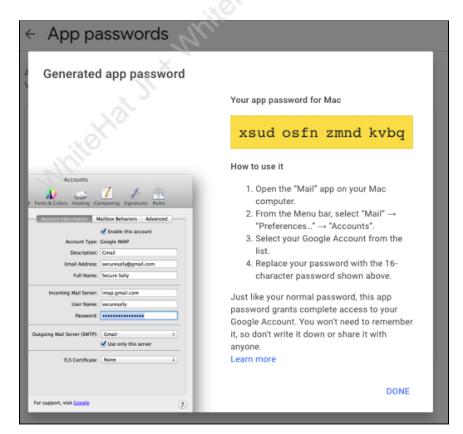




Select Mail in the app and Mac (or Windows) for your device.



• Click on Generate button and you will see your password





- Copy the password
- Paste it in the "pass' in our transporter's code.

```
const transporter = nodemailer.createTransport({
   port: 587,
   host: "smtp.gmail.com",
   auth: {
      user: 'apoorv.goyal@whitehatjr.com',
      pass: 'xsudosfnzmndkvbg',
   },
   secure: true,
});
```

6. Create an **API**, that can receive a **POST** request from the client with the room's **URL** and **To** (the email id of the person we want to send the invite to) data. Create a **POST** request with **app.post()** function.

```
app.post("/send-mail", (req, res) >> {
   const to = req.body.to;
   const url = req.body.url

const mailData = {
    from: "apoorv.goyal@whitehatjr.com",
    to: to,
    subject: "Join the video chat with me!",
    html: `Hey there,Come and join me for a video chat here - ${url}
};
})
```

7. Use the **transporter.sendMail()** to send the email with our mailData as it's first argument, and we have an arrow function to handle success and errors.

Inside the function,

- If we have an error, we are logging the error to the console.
- **else** we are sending a **response** with **res**, whose status code will be **200**, letting the client know that the Invitation is sent!



```
app.post("/send-mail", (req, res) => {
   const to = req.body.to;
   const url = req.body.url;
   const mailData = {
      from: "apoorv.goyal@whitehatjr.com",
      to: to,
      subject: "Join the video chat with me!",
      html: `Hey there,Come and join me for a video chat here - ${url}`
};

transporter.sendMail(mailData, (error, info) => {
      if (error) {
            return console.log(error);
      }
      res.status(200).send({ message: "Invitation sent!", message_id: info.messageId });
});
})
```

We have successfully learned about **SMTP** and how to send emails with the Gmail account using **nodemailer**

What's NEXT?

In the next class, we will be completing this app by connecting our **API** with our **client-side** and testing the functionality.

Expand Your Knowledge