nodejs create zoom meeting

By Tutor Network Team / March 5, 2022

Today in this tutorial – **nodejs create zoom meeting** – we will be generating a zoom meeting using node js. Since we often need to send meeting URLs without passwords in some meeting schedule projects so that members can join the meeting with just a link. So, let's get started.

What is zoom?

Zoom is a cloud-based video conferencing service that allows you to virtually connect with others while conducting live discussions, and it also allows you to record those sessions to watch later. It was reportedly utilized by more than half of Fortune 500 organizations in 2019, also it is expected to expand even more in 2020, with a 227 percent increase year over year.

Zoom api for developers.

Developers can use the Zoom API to get information from Zoom. On the Zoom App Marketplace, you may use this API to create private services or public apps. In this article, we are going to discuss how we can use zoom API for generating zoom a meeting link.

Doing the initial setup.

- Create an empty directory with any name you want.
- Open the folder with any code editor. I would like to prefer VS Code; you can download vs code from here. https://code.visualstudio.com/
- Open the terminal and navigate to your project directory.
- Now type **npm init -y** and hit enter. It will create package.json file and install necessary node modules
- Now use the following command.

```
npm install express nodemon cors dotenv request-promise jsonwebtoken
```

Creating the server.

Create an empty file namely server.js and put the below code in it.

```
const express = require("express");
const cors = require("cors");
const dotEnv = require("dotenv");
```

```
const app = express();

//registering middlewares
dotEnv.config();
app.use(cors());
app.use(express.json());

//listening to port
const port = process.env.PORT || 5000;

app.listen(port, () => {
  console.log(`Server is running on ${port}`);
});
```

Registering your application.

You'll need the zoom app's jwt API key and token now. You can create these app details by going to the developer section of the Zoom website. Please take the following steps

- Go to your developer account on Zoom. https://developers.zoom.us/
- After that, click the BUILD APP button to create your Zoom account, and you'll get this screen after logging in.

Choose your app type

JWT

Build an app that supports server-to-server integration with Zoom services without a need for user authorization.

Generate your API Key & Secret.

Your account already has JWT credentials.

Learn more   View here

OAuth

Build an app that accesses user-authenticated data for use with third party applications.

Generate your OAuth Client ID & Secret.

Learn more   Create

Chatbot

Build a Zoom chatbot that gets installed in the Zoom Client and interacts with users via chat.

Generate your Chatbot Client ID & Secret.

Learn more   Create

SDK

Build mobile, desktop, progressive web apps, and hybrid apps that integrate Zoom Client functionalities.

Generate your SDK Key & Secret.

Your account already has SDK credentials.

Learn more   View here

Webhook Only

Receive event-based notifications for Zoom account events such as meeting events, webinar events, cloud recording events, and more.

Learn more   Create

If you are still not sure about which app type would best suit your needs, visit our documentation for details.

Help me decide

Zoom developer dashboard.

- Now click on JWT and add the following details.

App credentials

API Key

[████████████████]   Copy

API Secret

[███████████████]   ⌣ Copy   Regenerate

IM Chat History Token

[██████████████████████████████] Copy   Regenerate

View JWT Token ⌄

                                                    Continue

API keys.

- Now create an empty file named as ".env" in src directory and creating two variables as follows and add your api key and secret. This will allow you to access the zoom api with your developer account.

```
.env        ✕
.env
1    API_KEY = [ ████████████ ]
2    API_SECRET = [ ██████████████ ]
3    |
```

Creating routes in server.

Let us create a routes folder inside the root directory and create an empty file namely zoomRouter.js. Add the following code inside it.

```javascript
const express = require("express");
const router = express.Router();
const requestPromise = require("request-promise");
const jwt = require("jsonwebtoken");
require("dotenv").config();

const payload = {
  iss: process.env.API_KEY, //your API KEY
  exp: new Date().getTime() + 5000,
};
const token = jwt.sign(payload, process.env.API_SECRET); //your API SECRET HERE

router.get("/createMeeting", (req, res) => {
  email = "developerEmail@gmail.com"; // your zoom developer email account
  var options = {
    method: "POST",
    uri: "https://api.zoom.us/v2/users/" + email + "/meetings",
    body: {
      topic: "Zoom Meeting Using Node JS", //meeting title
      type: 1,
      settings: {
        host_video: "true",
        participant_video: "true",
      },
    },
    auth: {
      bearer: token,
    },
    headers: {
      "User-Agent": "Zoom-api-Jwt-Request",
      "content-type": "application/json",
    },
    json: true, //Parse the JSON string in the response
  };

  requestPromise(options)
    .then(function (response) {
      console.log("response is: ", response);
      res.send("create meeting result: " + JSON.stringify(response));
    })
    .catch(function (err) {
      // API call failed...
      console.log("API call failed, reason ", err);
    });
});

module.exports = router;
```

Putting it all together.

Server.js

```
const cors = require("cors");
const dotEnv = require("dotenv");
const zoomRouter = require("./router/zoomRouter");
const app = express();

//registering middlewares
dotEnv.config();
app.use(cors());
app.use(express.json());

//registering routes
app.use("/zoomapi", zoomRouter);

//listening to port
const port = process.env.PORT || 5000;

app.listen(port, () => {
  console.log(`Server is running on ${port}`);
});
```
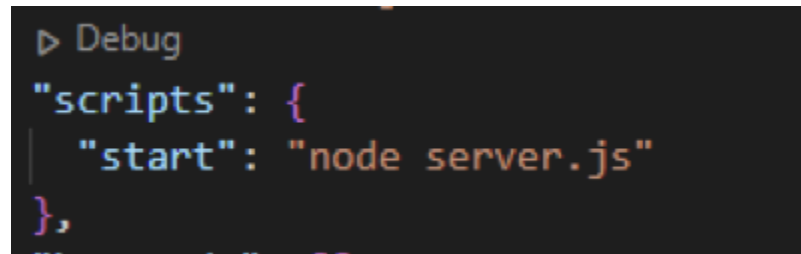
Now we will test it out in the browser. First, let's add "start" script in package.json,


```
▷ Debug
"scripts": {
    "start": "node server.js"
},
```

then we will start the server by command ***npm start***

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL

PS C:\Users\malih\Desktop\articles\generating-zoom-meeting-link> npm st

> generating-zoom-meeting-link@1.0.0 start
> nodemon server.js

[nodemon] 2.0.15
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js`
Server is running on 5000
```

Output:

```json
1  ▾ {
2        "uuid": "qPDMWvPuQP6MZL72nfma4w==",
3        "id": 87155021313,
4        "host_id": "01kZi20URz-CTWTc9j2hVQ",
5        "host_email": "m.alihasnain.818@gmail.com",
6        "topic": "Zoom Meeting Using Node JS",
7        "type": 1,
8        "status": "waiting",
9        "timezone": "America/Los_Angeles",
10       "created_at": "2022-03-02T19:25:51Z",
11       "start_url": "https://us05web.zoom.us/s/87155021313?
          zak=eyJ0eXAiOiJKV1QiLCJzdiI6IjAwMDAwMSIsInptX3NrbSI6InptX28ybSIsImFsZyI6IkhTMjU2In0.eyJhdWQiOiJjbGllbnRzbSIsInVpZCI6IjBsa1ppMjBVUnot
          d2NkIjoidXMwNSIsImNsdCI6MCwibWS1bSI6Ijg3MTU1MDIxMzEzIiwiZXhwIjoxNjQ2MjU2MzUxLCJpYXQiOjE2NDYyNDkxNTEsImFpZCI6IlJhVnlOUnpUUUNpNnhhGSkVu
          UANBpBnQpZb0l6iG9iWaQ4o3fT5WRiIGJU",
12       "join_url": "https://us05web.zoom.us/j/87155021313?pwd=dTRhUXhJT20xZFc0NGp2ajlCV25Ldz09",
13       "password": "1QwG5s",
14       "h323_password": "594914",
15       "pstn_password": "594914",
16       "encrypted_password": "dTRhUXhJT20xZFc0NGp2ajlCV25Ldz09",
17     ▾ "settings": {
18           "host_video": true,
19           "participant_video": true,
20           "cn_meeting": false,
21           "in_meeting": false,
22           "join_before_host": false,
23           "jbh_time": 0,
24           "mute_upon_entry": false,
25           "watermark": false,
26           "use_pmi": false,
27           "approval_type": 2,
28           "audio": "voip",
29           "auto_recording": "none",
30           "enforce_login": false,
31           "enforce_login_domains": "",
32           "alternative_hosts": "",
33           "close_registration": false,
34           "show_share_button": false,
35           "allow_multiple_devices": false,
36           "registrants_confirmation_email": true,
37           "waiting_room": false,
38           "request_permission_to_unmute_participants": false,
39           "registrants_email_notification": true,
40           "meeting_authentication": false,
41           "encryption_type": "enhanced_encryption",
42         ▾ "approved_or_denied_countries_or_regions": {
43               "enable": false
44           },
45         ▾ "breakout_room": {
46               "enable": false
47           },
48           "alternative_hosts_email_notification": true,
49           "device_testing": false,
50           "focus_mode": false,
51           "private_meeting": false,
52           "email_notification": true
53       },
54       "pre_schedule": false
55  }
```

In this image we can see, there is a key "start_url", we need to copy the URL and paste it into the browser. It will open a zoom meeting for us. ☺

Conclusion.

I hope you really enjoyed this amazing tutorial for generating zoom meeting with node js. You can also read more about zoom API at https://marketplace.zoom.us/docs/guides/. You can find our other tutorials here.