

Module 4: Integration with MongoDB And Email Servers

Demo Document 3

edureka!

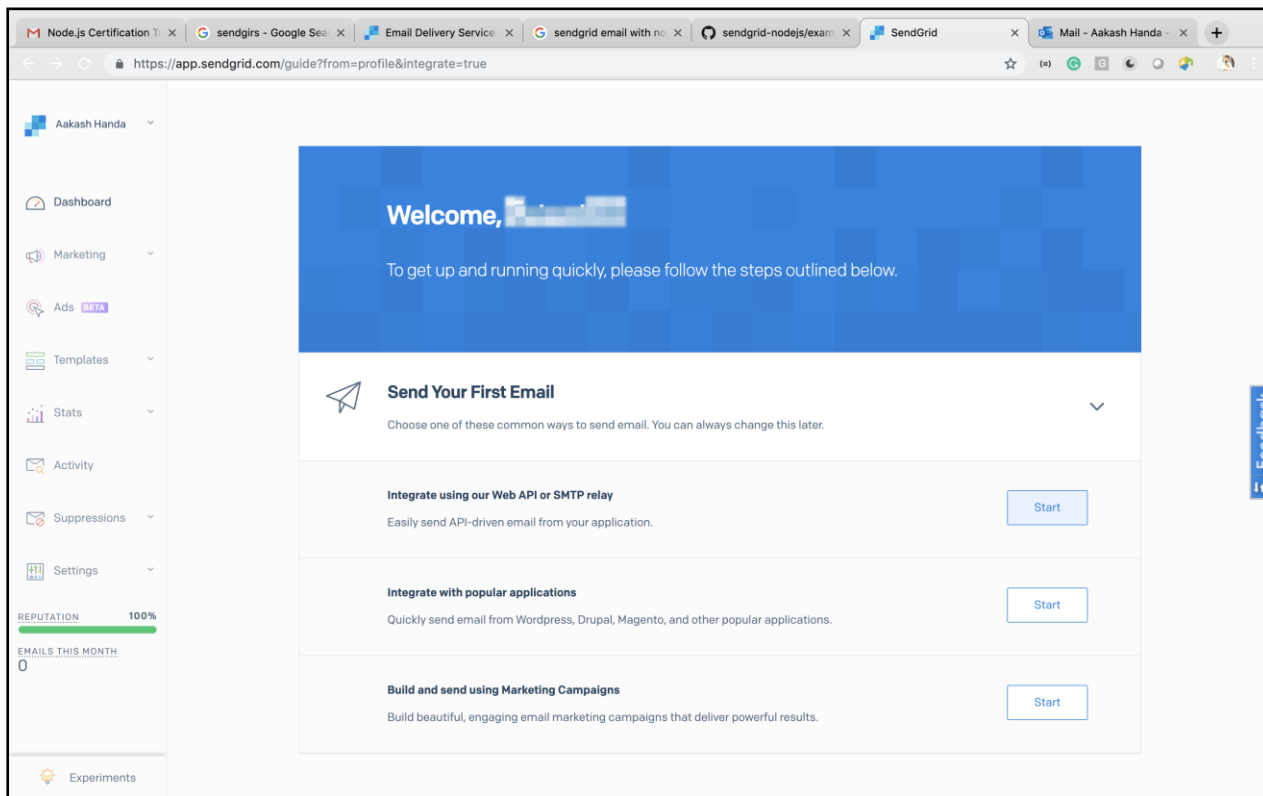
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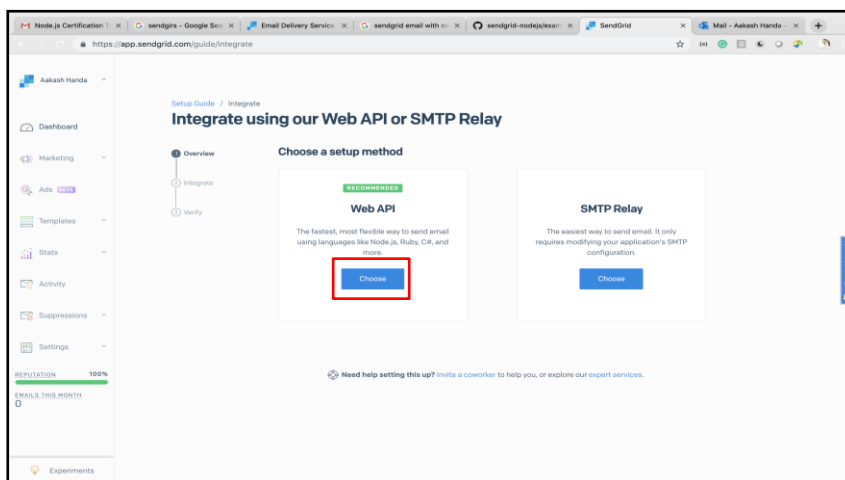
Sending Email Via Node.js Application Using SendGrid

DEMO Steps:

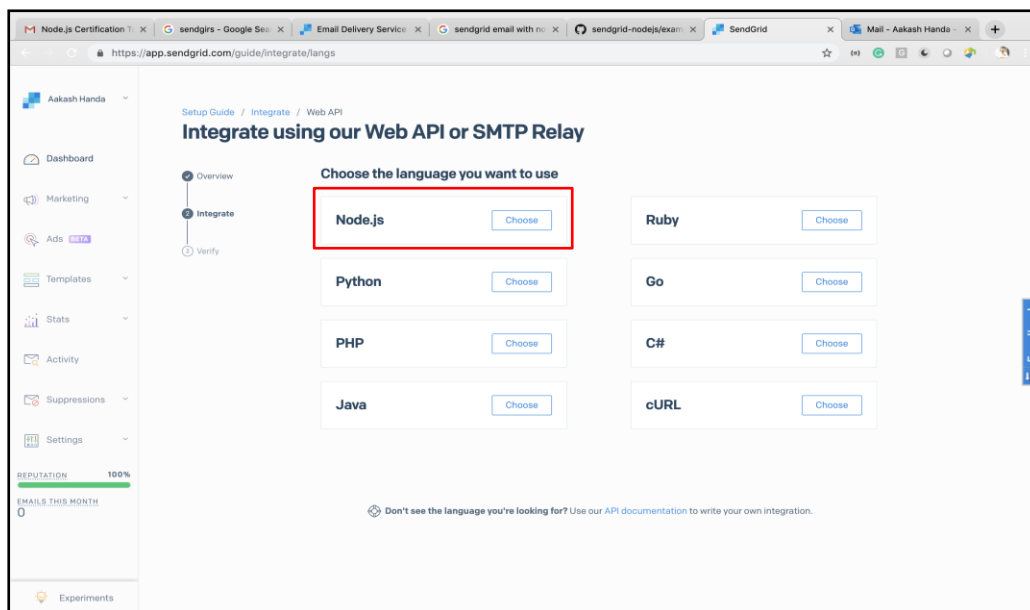
Step1: With the link: <https://app.sendgrid.com> sign up a free tier account for SendGrid.



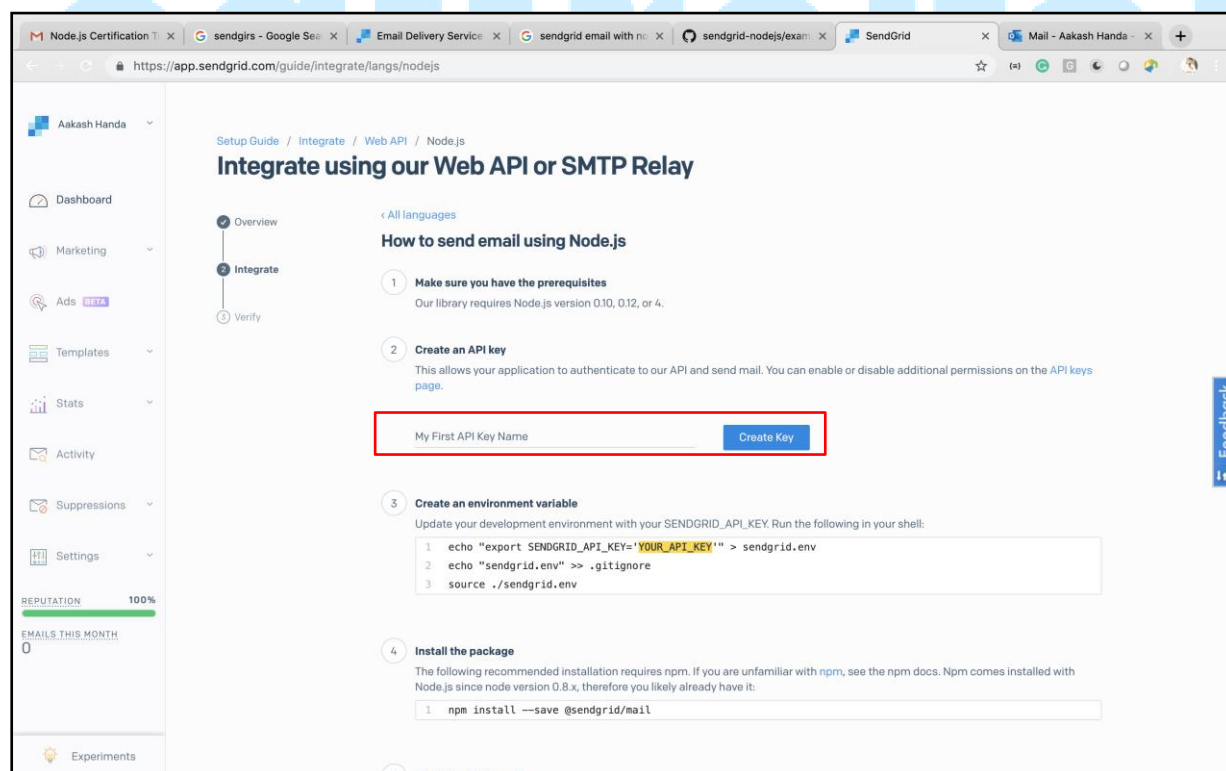
Step 2: Integrate SendGrid in your application using API, so click on Web API.



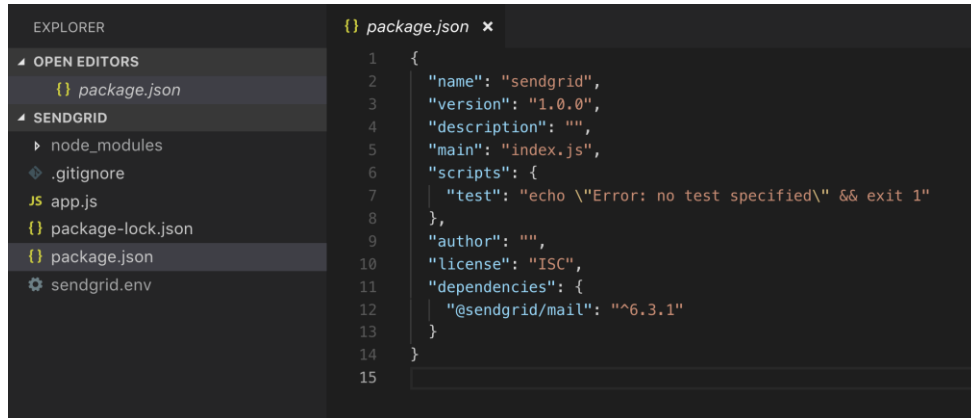
Step 3: Select platform as Node.js to integrate the SendGrid API with your application.



Step 4: Create your own API key.



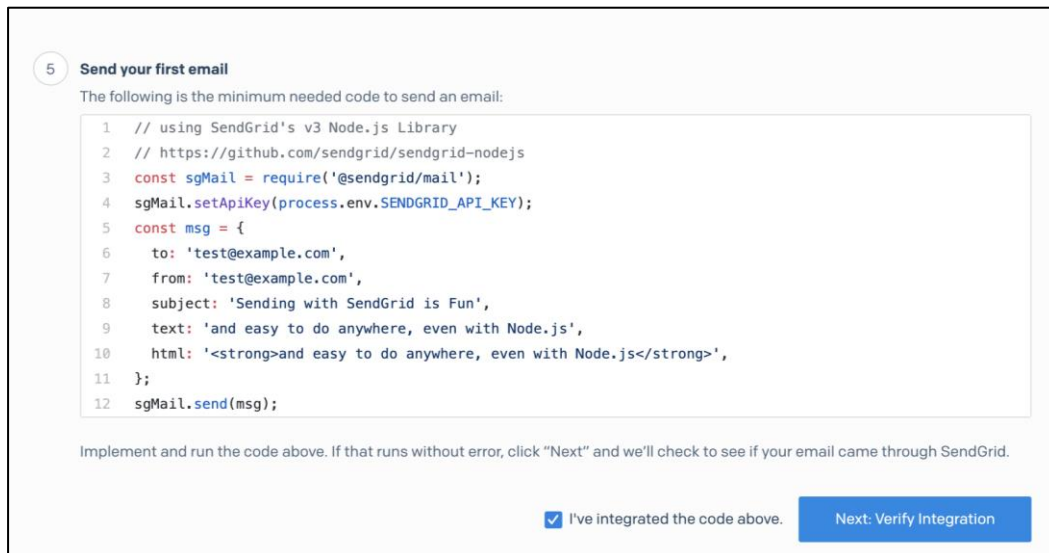
Step 5: Create new folder and create package.json after that Install SendGrid node_module in your folder using the command: `npm i @sendgrid/mail`



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with files like package.json, package-lock.json, and sendgrid.env. The code editor shows the content of package.json, which is a JSON object with fields for name, version, description, main, scripts, author, license, and dependencies. The dependencies field includes @sendgrid/mail with a version constraint of ^6.3.1.

```
1 {
2   "name": "sendgrid",
3   "version": "1.0.0",
4   "description": "",
5   "main": "index.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\" && exit 1"
8   },
9   "author": "",
10  "license": "ISC",
11  "dependencies": {
12    "@sendgrid/mail": "^6.3.1"
13  }
14 }
```

Step 6: Create new folder app.js and paste the code form SendGrid website in it. (change the mail ids)



The screenshot shows a tutorial page from SendGrid titled "Send your first email". It provides a code snippet for sending an email using the SendGrid Node.js library. The code includes comments and uses placeholder email addresses like 'test@example.com'. Below the code, there is a checkbox to confirm integration and a button to proceed to the next step.

5 Send your first email

The following is the minimum needed code to send an email:

```
1 // using SendGrid's v3 Node.js Library
2 // https://github.com/sendgrid/sendgrid-nodejs
3 const sgMail = require('@sendgrid/mail');
4 sgMail.setApiKey(process.env.SENDGRID_API_KEY);
5 const msg = {
6   to: 'test@example.com',
7   from: 'test@example.com',
8   subject: 'Sending with SendGrid is Fun',
9   text: 'and easy to do anywhere, even with Node.js',
10  html: '<strong>and easy to do anywhere, even with Node.js</strong>',
11 };
12 sgMail.send(msg);
```

Implement and run the code above. If that runs without error, click "Next" and we'll check to see if your email came through SendGrid.

☒ I've integrated the code above. [Next: Verify Integration](#)

```
JS account.js x {} package.json
1 const sgMail = require('@sendgrid/mail')
2
3 const sendgridAPIKey = 'SG.xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx'
4
5 sgMail.setApiKey(sendgridAPIKey)
6
7 sgMail.send({
8   to: 'xxxxxxxxxx@edureka.co',
9   from: 'xxxxxxxxxx@edureka.co',
10  subject: 'Email via Node.js app',
11  text: 'welcome to node.js certification Training'
12 })
```

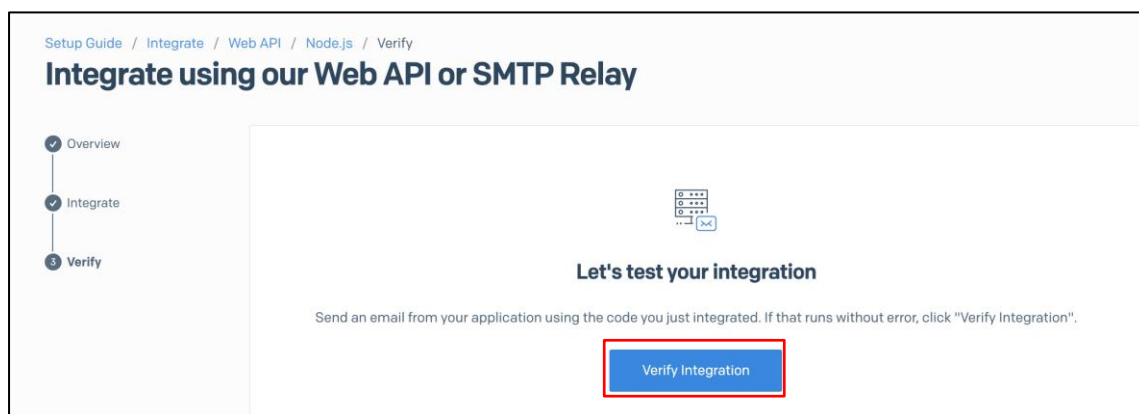
Step 7: Execute `npm start` in command prompt and then on verify integration on SendGrid UI

```
Avyaans-MacBook-Pro:SendGrid avi$ npm install --save @sendgrid/mail
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN sendgrid@1.0.0 No description
npm WARN sendgrid@1.0.0 No repository field.

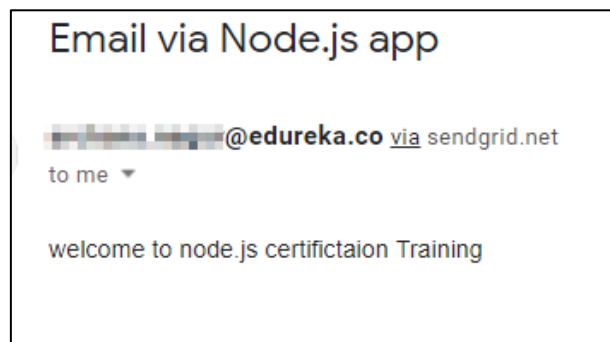
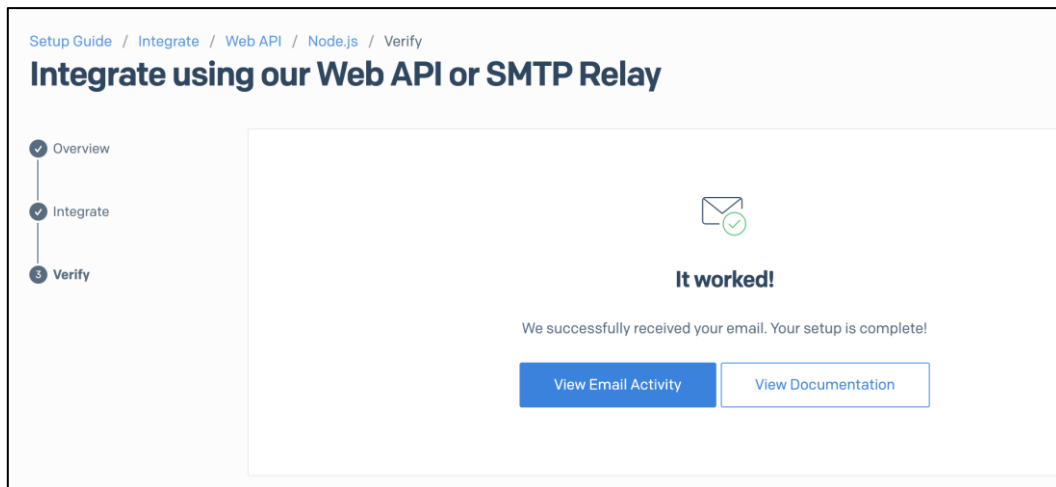
+ @sendgrid/mail@6.3.1
added 64 packages from 125 contributors and audited 89 packages in 2.776s
found 0 vulnerabilities

Avyaans-MacBook-Pro:SendGrid avi$ node app.js
Avyaans-MacBook-Pro:SendGrid avi$ node app.js
Avyaans-MacBook-Pro:SendGrid avi$
```

Step 8: Complete the verification of Integration by clicking on Verify Integration:



Step 9: Check your inbox to confirm the integration.



Conclusion:

We have successfully sent email via our application using SendGrid.