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Send Email With Node.JS From a React Website Using Nodemailer and Sendgrid



Bassit Owolabi · Follow

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A while back I wrote an article on how to send e-mails directly from your

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find it [here](#).

This tutorial isn't completely beginner-friendly, I expect you to have a basic understanding of how node works, a basic express setup and how to enable communication between an express server and a React website as the client.

Source code for this tutorial is available [here](#)

In this article I will show you how to:

Open in app ↗



Search



Write



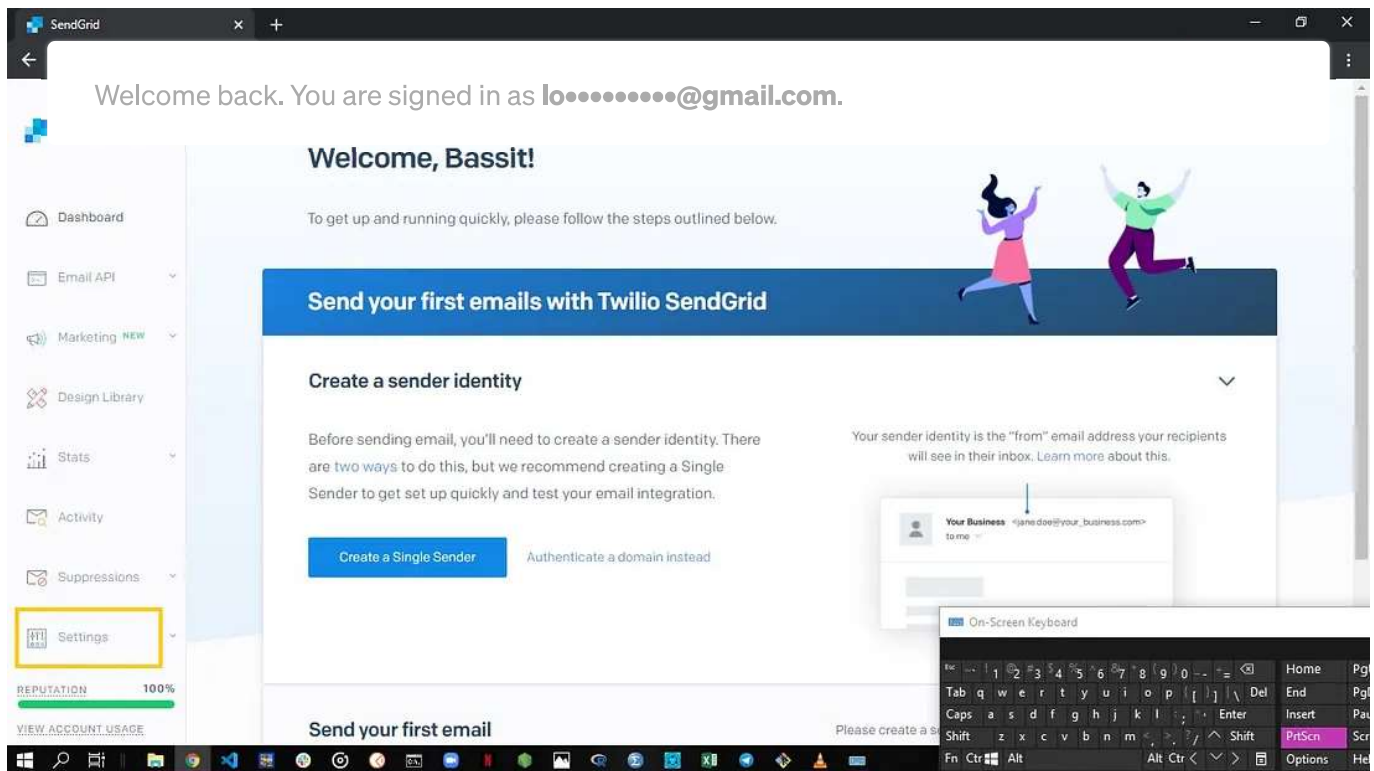
- configure nodemailer
- Send e-mail with node

1. Configure sendgrid account

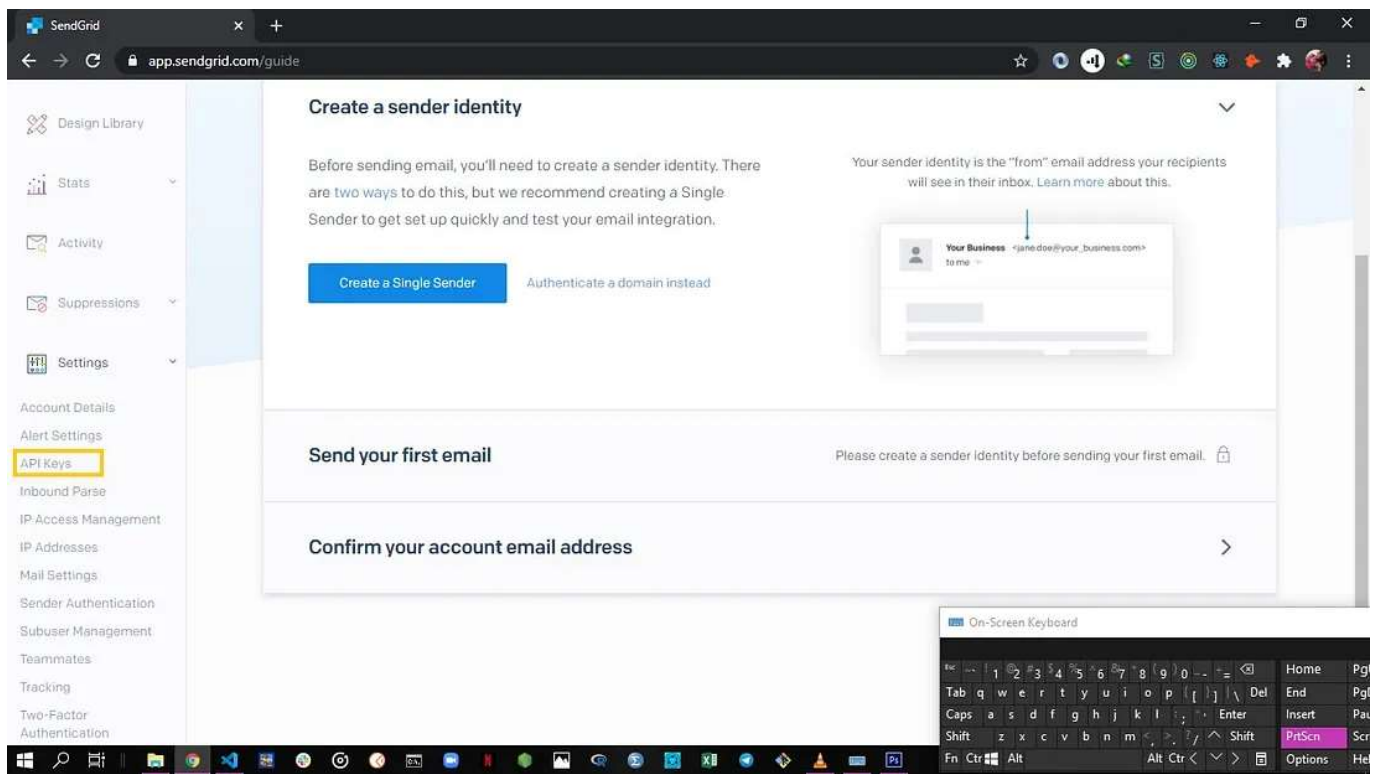
Sendgrid is a cloud-based SMTP server that allows you to send emails without having to maintain email servers.

Head over to [sendgrid](#), create an account using the free plan or log in if you already have an account.

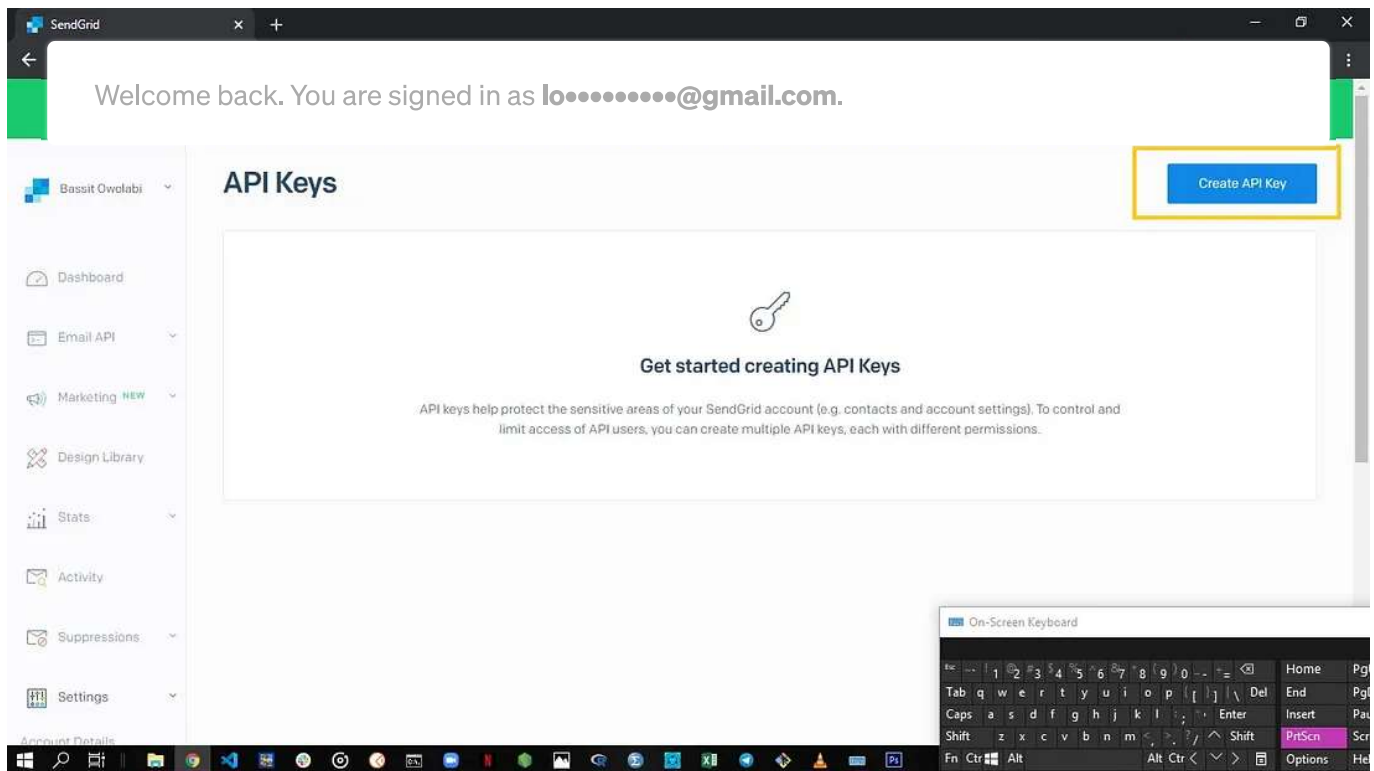
After login, you will be greeted with a page as shown in the image below. Click on settings, I made a yellow box around it for easier identification.



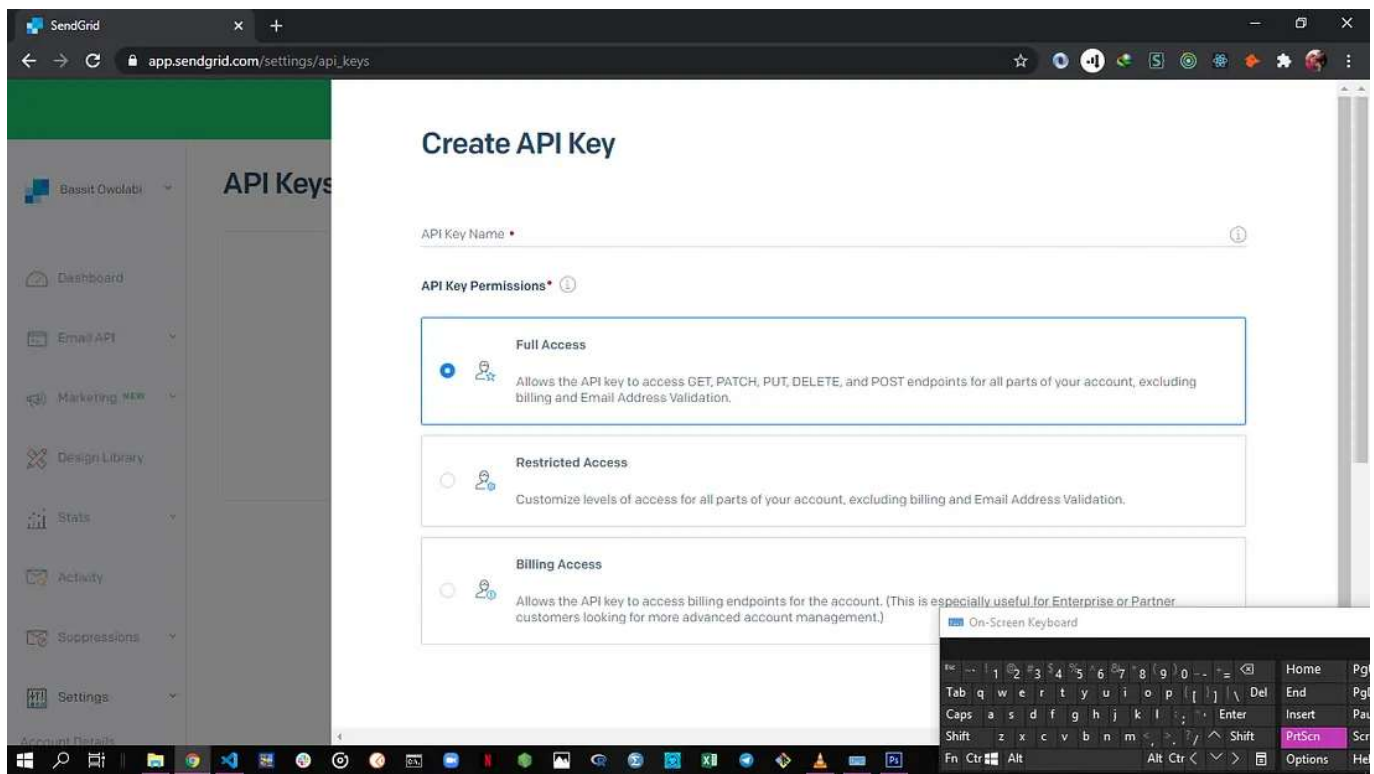
The settings tab will be expanded, click on API keys



If you don't have any, proceed to create a new API key

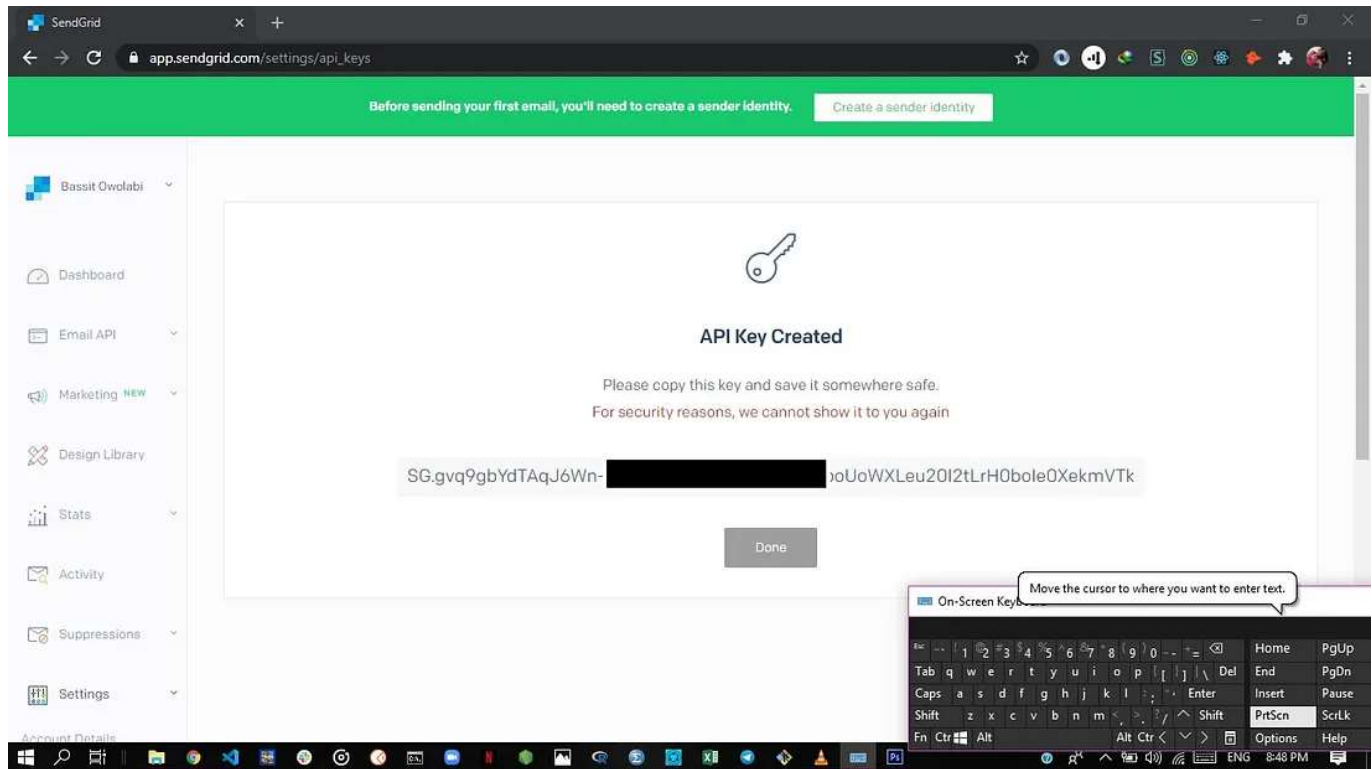


Give it any name you desire and choose full access for API key permissions



Your API key will be generated. Copy and keep somewhere safe as you can

on Welcome back. You are signed in as lo.....@gmail.com.



In the server side create a folder with the name “config”, in this folder create a file with the name “keys.js”. In this file paste this code

```
module.exports={
  SENDGRID_API: 'YOUR API KEY'
}
```

Replace “YOUR API KEY” with your actual key. Don’t forget to add this folder to your gitignore file. I would have used dotenv for improved security but I don’t want this tutorial getting out of context.

2. Set-up client-side

Now let's get to the coding part. The next step involves setting up the front-

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isn't a CSS tutorial I won't be going over the styling aspect.

Create a new component and paste the following code in it.

```
import React,{useState} from 'react'
const Message = ()=>{
  const [name,setName] = useState("")
  const [email,setEmail] = useState("")
  const [message,setMessage] = useState("")
  const [subject,setSubject] = useState("")
  const PostData = ()=>{
    fetch("/send",{
      method:"post",
      headers:{
        "Content-Type":"application/json"
      },
      body:JSON.stringify({
        name,
        email,
        subject,
        message
      })
    }).then(res=>res.json())
    .then(data=>{
      alert(data.message)
      setMessage('')
      setName('')
    })
  }
}
```

```
setSubject('')
```

```
    Welcome back. You are signed in as lo.....@gmail.com.
```

```
  }).catch(err=>{
```

```
    console.log(err)
```

```
  })
```

```
}
```

```
return (
```

```
<div style={{maxWidth: '60%', display:'flex', flexDirection:
'column', alignItems:'center'}} className="mycard">
```

```
<div className="card auth-card input-field">
```

```
<h2>Send me a Message</h2>
```

```
<input
```

```
  type="text"
```

```
  placeholder="email"
```

```
  value={email}
```

```
  onChange={(e)=>setEmail(e.target.value)}
```

```
<input
```

```
  type="text"
```

```
  placeholder="name"
```

```
  value={name}
```

```
  onChange={(e)=>setName(e.target.value)}
```

```
<input
```

```
  type="text"
```

```
  placeholder="subject"
```

```
  value={subject}
```

```
  onChange={(e)=>setSubject(e.target.value)}
```

```
<textarea
```

```
  type="text"
```

```
placeholder="Message"
```

```
    Welcome back. You are signed in as lo.....@gmail.com.
```

```
    onChange={ (e) => setMessage(e.target.value) }
```

```
  />
```

```
<button className="btn waves-effect waves-light #64b5f6 blue darken-1"
```

```
  onClick={() => postData()} 
```

```
>
```

```
  Send Message
```

```
</button>
```

```
</div>
```

```
</div>
```

```
)
```


```
}
```

```
export default Message
```

Quick breakdown.

After the user fills the form, the onChange handler in each input tag updates the state with the value the user supplies. Once the Send message button is clicked, the 'postData' function is fired.

In the postData function we're making a post request to the "/send" route on the server which we will be creating shortly. In this request, we're sending all the data provided by the user to the server. After the data is successfully sent, we get back a response, alert the user with any information in the message object and clear all inputs.



Welcome back. You are signed in as lo.....@gmail.com.

Send me a message

email

name

subject

Message

SEND MESSAGE

output should look like this

3. Configure Nodemailer

Now that we are done with the client-side, we'll head over to our server side.

Open your terminal, navigate to the server folder and run these two commands to install nodemailer and sendgrid transport

```
npm install nodemailer nodemailer-sendgrid-transport
```

3.2 Import both packages and your api key into app.js file

```
const nodemailer = require('nodemailer')  
const sendGridTransport = require('nodemailer-sendgrid-transport');  
const {SENDGRID-API} = require('./config/keys');
```

3.3 Create a transporter for sendgrid

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This is where we'll need the API key.

```
const transporter = nodemailer.createTransport(sendGridTransport({
  auth:{
    api_key:SENDGRID_API
  }
}))
```

3.3 Create post route

This will handle the request made from the client-side.

replace 'YOUR EMAIL' with the mail you want the message delivered to

```
app.post('/send', (req, res) => {
  const { name, email, message, subject } = req.body
  transporter.sendMail({
    to:'YOUR EMAIL',
    from: email,
    subject:subject,
    html:`<h3>${name}</h3>
    <p>${message}</p>`
  }).then(resp => {
    res.json({resp})
  })
  .catch(err => {
```

```
console.log(err)
```

```
Welcome back. You are signed in as lo.....@gmail.com.
```

```
})
```

Your app.js file should look like this.

```
const express = require('express')
const app = express()
const nodemailer = require('nodemailer')
const sendGridTransport = require('nodemailer-sendgrid-transport');
const {SENDGRID_API} = require('./config/keys')
const PORT = process.env.PORT || 5000
app.use(express.json())
const transporter = nodemailer.createTransport(sendGridTransport({
  auth:{
    api_key:SENDGRID_API
  }
}))
app.post('/send', (req, res) => {
  const { name, email, message, subject } = req.body
  transporter.sendMail({
    to:'YOUR EMAIL',
    from: email,
    subject:subject,
    html:`<h3>${name}</h3>
    <p>${message}</p>`
  }).then(resp => {
    res.json({resp})
  })
})
```

```
.catch(err => {
```

```
  Welcome back. You are signed in as lo.....@gmail.com.
```

```
})
```

```
})
```

```
app.listen(PORT, ()=>{
```

```
  console.log("server is running on",PORT)
```

```
})
```

4. Send E-mail

Start both the client server and the node server.

Fill all inputs and click “send message”, your message should be delivered instantly.

If you run into a sendgrid sender verification error, head over to your sendgrid account, go to settings => Sender Authentication. You can then verify a single sender or verify your domain instead.

The source code for this tutorial can be found on my [Github profile](#).

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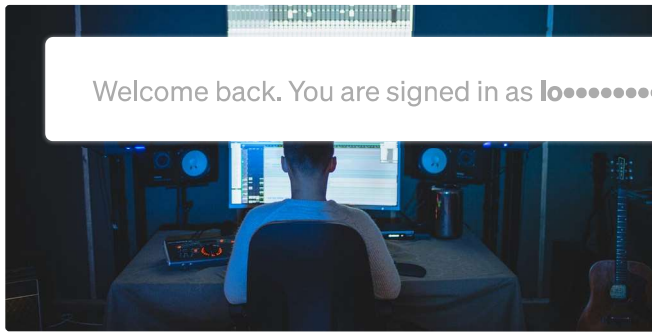
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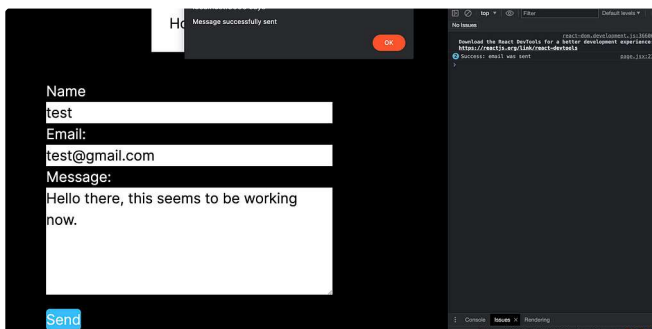


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How to use it

Go to the settings for your Google Account in the application or device you are trying to set up. Replace your password with the 16-character password shown above.

Just like your normal password, this app password grants complete access to your Google Account. You won't need to remember it, so don't write it down or share it with anyone.



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