Full stack Development

Task_2.1P

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```
EXPLORER                      <> sendgrid.html ×   # sendgrid.css    ⚙ .env        JS index.js      {} package.json

∨ TASK2.1P                    <> sendgrid.html > ⊘ html > ⊘ body > ⊘ script
  > node_modules                1    <!DOCTYPE html>
  ⚙ .env                        2    <html lang="en">
  JS index.js                   3    <head>
  {} package-lock.json          4        <meta charset="UTF-8">
  {} package.json               5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  # sendgrid.css                6        <title>Welcome email</title>
  <> sendgrid.html              7        <link rel="stylesheet" href="sendgrid.css">
                                8    </head>
                                9    <body>
                               10        <div class="sign-up">
                               11            SIGN UP FOR DAILY INSIDER
                               12            <input  id="emailInput" type="email" placeholder="enter your email..."/>
                               13            <button onclick="subscribe()">Subscribe</button>
                               14        <p id="message"></p>
                               15        </div>
                               16      <script>
                               17        async function subscribe() {
                               18          const email = document.getElementById("emailInput").value;
                               19          const message = document.getElementById("message");
                               20
                               21          if (!email) {
                               22            message.innerText = "Please enter an email.";
                               23            return;
                               24          }
                               25
                               26          try {
                               27            const response = await fetch("http://localhost:3000/api/send-welcome", {
                               28
                               29              method: "POST",
                               30              headers: {
                               31                "Content-Type": "application/json",
                               32              },
                               33              body: JSON.stringify({ email }),
                               34            });
                               35
                               36            const data = await response.json();
                               37            message.innerText = data.message;
                               38          } catch (error) {
                               39            message.innerText = "Try again.";
                               40            console.error(error);
                               41          }
                               42        }
                               43      </script>
                               44    </body>
                               45    </html>

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

○ sriman@Srimans-MacBook TASK2.1P % node index.js
  [dotenv@17.2.1] injecting env (1) from .env — tip: ⚙ load multiple .env files with { path: ['.env.local', '.env'] }
  Server is running at http://localhost:3000
  Welcome email sent to sriramhrudik04@gmail.com
  ⬚

> OUTLINE
> TIMELINE
```

```css
.sign-up{
    display: inline-flex;
    background-color: #d3d3d3da;
    padding: 10px;
    display: inline-flex;
    align-items: center;
    font-family:'Times New Roman', Times, serif;
    font-weight: bold;
    padding-right: 0px;
    width:40%;

}

.sign-up input[type="email"]{
    padding: 4px;
    margin-left:10px;
    margin-right:10px;
    box-sizing: content-box;
    border: 2px solid #000;
    font-family:Georgia, 'Times New Roman', Times, serif;
    width:35%;
    border-radius: 5px;


}

.sign-up button{
    background-color: rgba(1, 1, 39, 0.319);
    border-radius: 7px;
    cursor: pointer;
    font-weight: bold;

}

.sign-up button:hover{
    background-color: #666;
}
```

∨ TASK2.1P
- `>` node_modules
- ⚙ .env
- JS index.js
- {} package-lock.json
- {} package.json
- # sendgrid.css
- `<>` sendgrid.html

JS index.js `>` ⬡ app.post("/api/send-welcome") callback `>` 🔲 msg `>` 🔧 subject

```javascript
1   const express = require("express");
2   const cors = require("cors");
3   const dotenv = require("dotenv");
4   const sgMail = require("@sendgrid/mail");
5
6   dotenv.config();
7
8
9   sgMail.setApiKey(process.env.SENDGRID_API_KEY);
10
11  const app = express();
12  const PORT = 3000;
13
14  app.use(cors());
15  app.use(express.json());
16
    Tabnine | Edit | Test | Explain | Document
17  app.post("/api/send-welcome", async (req, res) => {
18    const { email } = req.body;
19
20    if (!email) {
21      return res.status(400).json({ message: "Email is required." });
22    }
23
24    const msg = {
25      to: email,
26      from: "srimankowshik005@gmail.com",
27      subject: "Welcome to DEV@Deakin!",
28      text: "Thank you for joining DEV@Deakin. We're excited to have you!",
29      html: `<strong>Thanks for subscribing to DEV@Deakin!</strong><br>You're now part of our developer community.`,
30    };
31
32    try {
33      await sgMail.send(msg);
34      console.log(`Welcome email sent to ${email}`);
35      res.status(200).json({ message: "Welcome email sent successfully!" });
36    } catch (error) {
37      console.error("Error sending email:", error.response?.body || error.message);
38      res.status(500).json({ message: "Failed to send welcome email." });
39    }
40  });
41
42  // Start server
    Tabnine | Edit | Test | Explain | Document
43  app.listen(PORT, () => {
44    console.log(`Server is running at http://localhost:${PORT}`);
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   **TERMINAL**   PORTS

```
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  [dotenv@17.2.1] injecting env (1) from .env — tip: ⚙ load multiple .env files with { path: ['.env.local', '.env'] }
  Server is running at http://localhost:3000
  Welcome email sent to sriramhrudik04@gmail.com
```
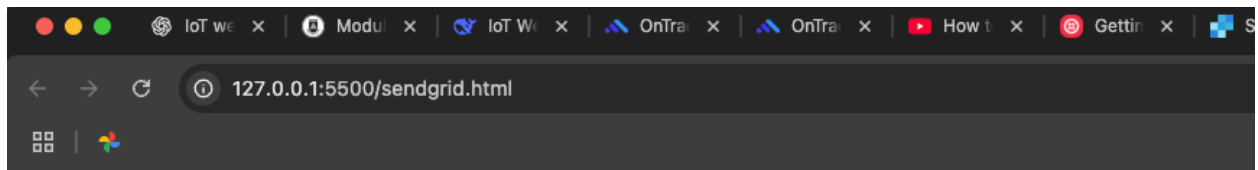
`>` OUTLINE

`>` TIMELINE

**SIGN UP FOR
DAILY INSIDER**

sriramhrudik04@gm

Subscribe

**Welcome email sent
successfully!**