

**Integrating SendGrid Service**  
**SendGrid Integration With Python Code**

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Project Name	Nutrition Assistant Application

## Creating an API Key

The screenshot shows the SendGrid web interface for managing API keys. The browser address bar displays `app.sendgrid.com/settings/api_keys`. A light blue banner at the top contains an information icon and the text: "Before sending your first email, you'll need to create a sender identity. [Create a sender identity](#)".

On the left is a sidebar menu with the following items: Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, and Settings. The "API Keys" section is currently selected in the main content area.

In the top right corner of the main area, there is a blue button labeled "Create API Key".

Below the button is a table with the following structure:

NAME	API KEY	ACTION
API Key ID: D8Y53524SymJBMpNK-oE5w	.....	

**Creating a Virtual Environment “Email Test” and creating mail.py file with the following code inside the virtual environment**

```
import sendgrid import
os
from sendgrid.helpers.mail import *

sg = sendgrid.SendGridAPIClient(api_key= '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'
) from_email = Email("arivananthapandian16@gmail.com") to_email = To("arivananthapandian16@gmail.com") subject =
"test mail" content = Content("text/plain", "and easy to do anywhere, even with Python") mail = Mail(from_email,
to_email, subject, content) response = sg.client.mail.send.post(request_body=mail.get())
print(response.status_code) print(response.body) print(response.headers)
```

