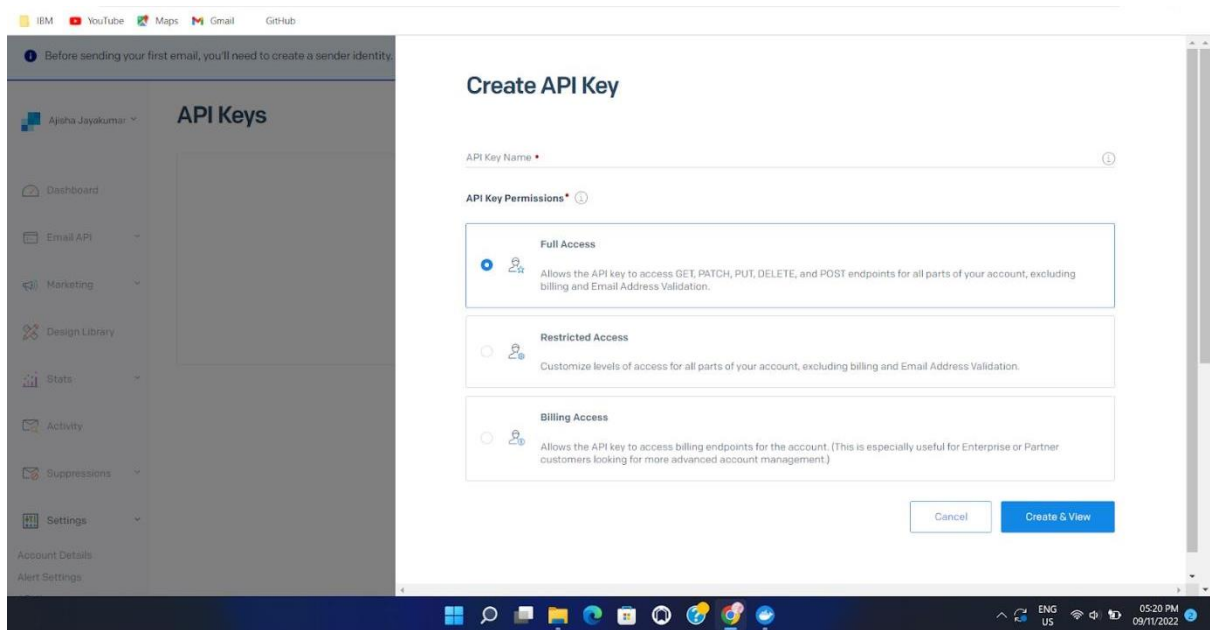


PROJECT DEVELOPMENT PHASE

SPRINT 4

TEAM ID	PNT2022TMID28159
PROJECT NAME	Smart Fashion Recommender Application

1. Sendgrid integration with python



```
Administrator: Windows PowerShell
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> pip install sendgrid
Collecting sendgrid
  Downloading sendgrid-6.9.7-py3-none-any.whl (101 kB)
-----
101.1/101.1 kB 447.4 kB/s eta 0:00:00
Collecting python-http-client>=3.2.1
  Downloading python_http_client-3.3.7-py3-none-any.whl (8.4 kB)
Collecting starkbank-ecdsa>=2.0.1
  Downloading starkbank-ecdsa-2.2.0.tar.gz (14 kB)
  Preparing metadata (setup.py) ... done
Installing collected packages: starkbank-ecdsa, python-http-client, sendgrid
  DEPRECATION: starkbank-ecdsa is being installed using the legacy 'setup.py install' method, because it does not have a 'pyproject.toml' and the 'wheel' package is not installed. pip 23.1 will enforce this behaviour change. A possible replacement is to enable the '--use-pep517' option. Discussion can be found at https://github.com/pypa/pip/issues/8559
  Running setup.py install for starkbank-ecdsa ... done
Successfully installed python-http-client-3.3.7 sendgrid-6.9.7 starkbank-ecdsa-2.2.0

[notice] A new release of pip available: 22.3 -> 22.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip
PS C:\Windows\system32>
```

Ajisha Jayakumar

Dashboard

Email API

Marketing

Design Library

Stats

Activity

Suppressions

Settings

Account Details

Alert Settings

API Keys

Inbound Parse

Sender Authentication /

Single Sender Verification

SENDERS		ADDRESS
Ajisha	ajishaj503@gmail.com	stela marys
FROM	ajishaj503@gmail.com	https://www.stelamaryscoe.edu
REPLY	amirenjai@gmail.com	nagercoil, IND

Sender has been created

To verify sender identity, check your inbox at ajishaj503@gmail.com.

Resend email

Close

Gmail

Compose

Inbox 613

Starred

Snoozed

Sent

Drafts 16

More

Labels +

Search mail

Please Verify Your Single Sender

SendGrid

no-reply@sendgrid.com

Unsubscribe

to me

11:09 PM (0 minutes ago)

1 of 1,240

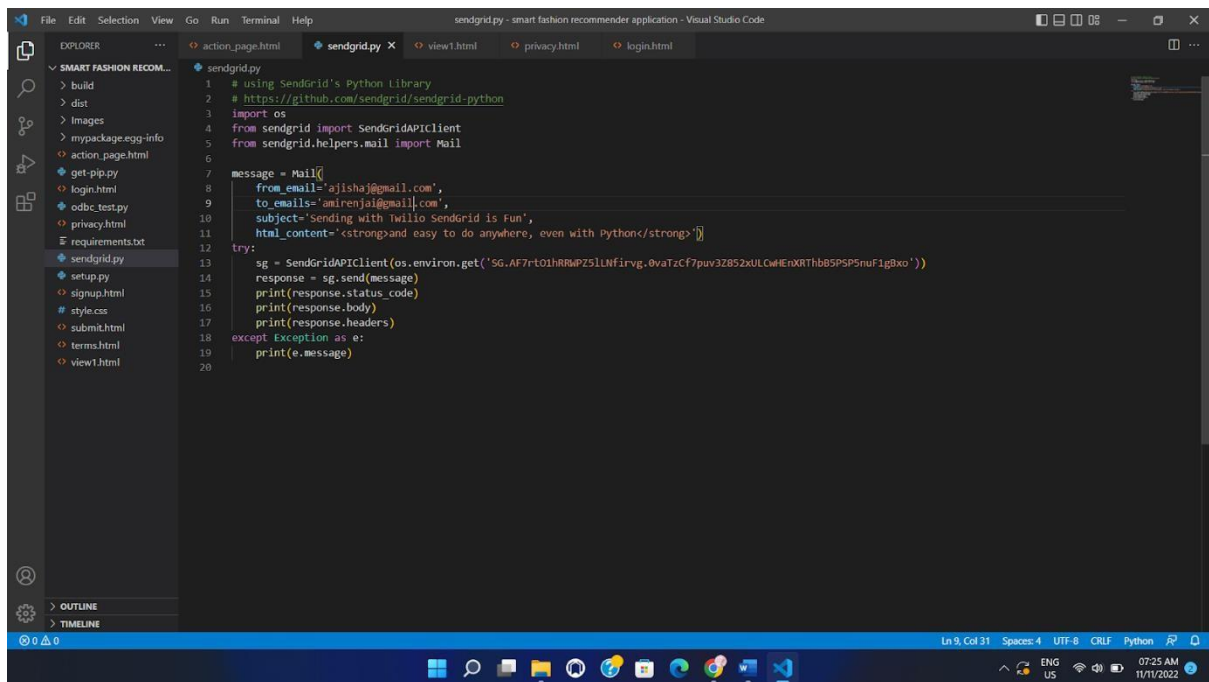
Let's verify your single sender so you can start sending email.

ajishaj503@gmail.com

Your link is active for 48 hours. After that, you will need to resend the verification email.

Verify Single Sender

Sending request...

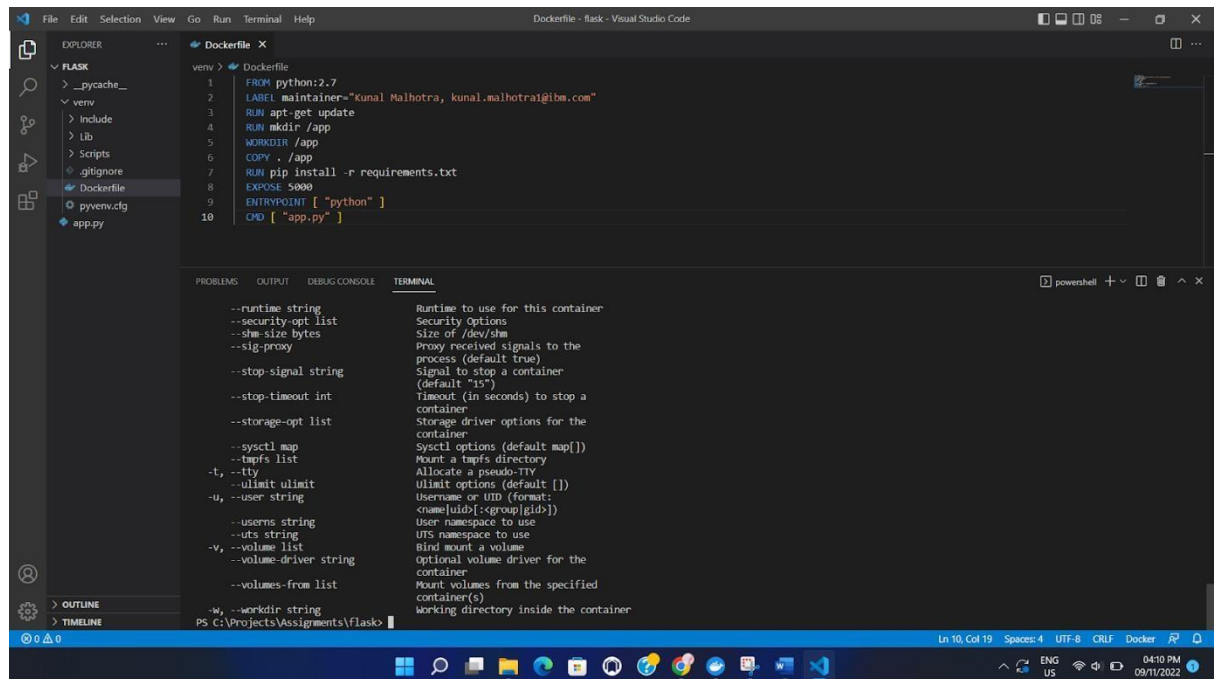


The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying a project named 'SMART FASHION RECOMMENDER'. The file explorer lists various files including 'build', 'dist', 'Images', 'mypackage.egg-info', 'action_page.html', 'get-pip.py', 'login.html', 'odbc_test.py', 'privacy.html', 'requirements.txt', 'sendgrid.py', 'setup.py', 'signup.html', 'style.css', 'submit.html', 'terms.html', and 'view1.html'. The 'sendgrid.py' file is open in the editor, showing the following Python code:

```
1 # using SendGrid's Python Library
2 # https://github.com/sendgrid/sendgrid-python
3 import os
4 from sendgrid import SendGridAPIClient
5 from sendgrid.helpers.mail import Mail
6
7 message = Mail(
8     from_email='ajishaj@gmail.com',
9     to_emails='amirenjai@gmail.com',
10    subject='Sending with Twilio SendGrid is Fun',
11    html_content='<strong>and easy to do anywhere, even with Python</strong>')
12
13 try:
14     sg = SendGridAPIClient(os.environ.get('SG.AF7rt01hRMPZ51LNFirvg.0vatZcf7puv32852xULQwEnXRTbB5P5nuF1gBxo'))
15     response = sg.send(message)
16     print(response.status_code)
17     print(response.body)
18     print(response.headers)
19 except Exception as e:
20     print(e.message)
```

The status bar at the bottom indicates the cursor is at line 9, column 31, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Python interpreter selected. The system tray shows the date and time as 07:25 AM on 11/11/2022.

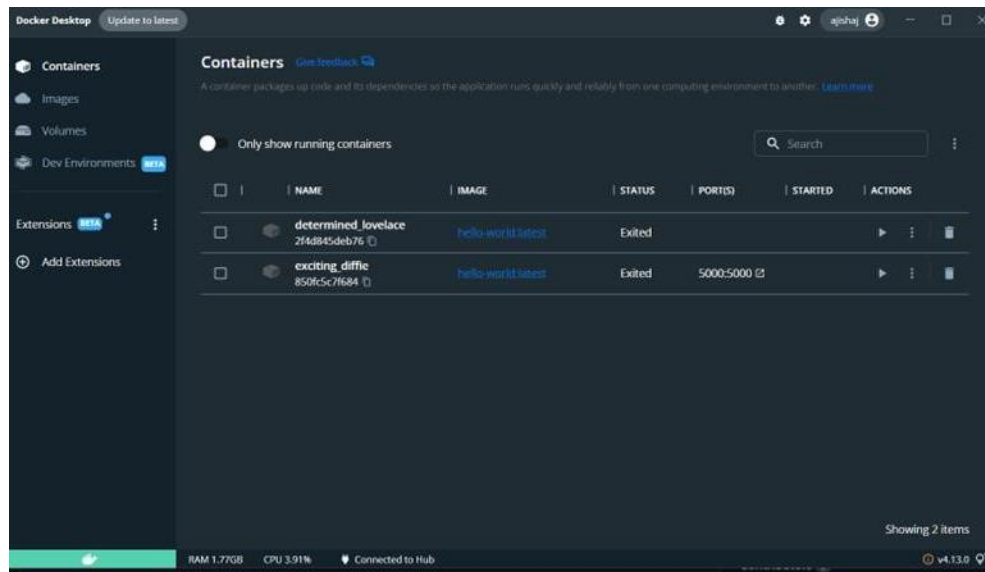
2. Containerize the application



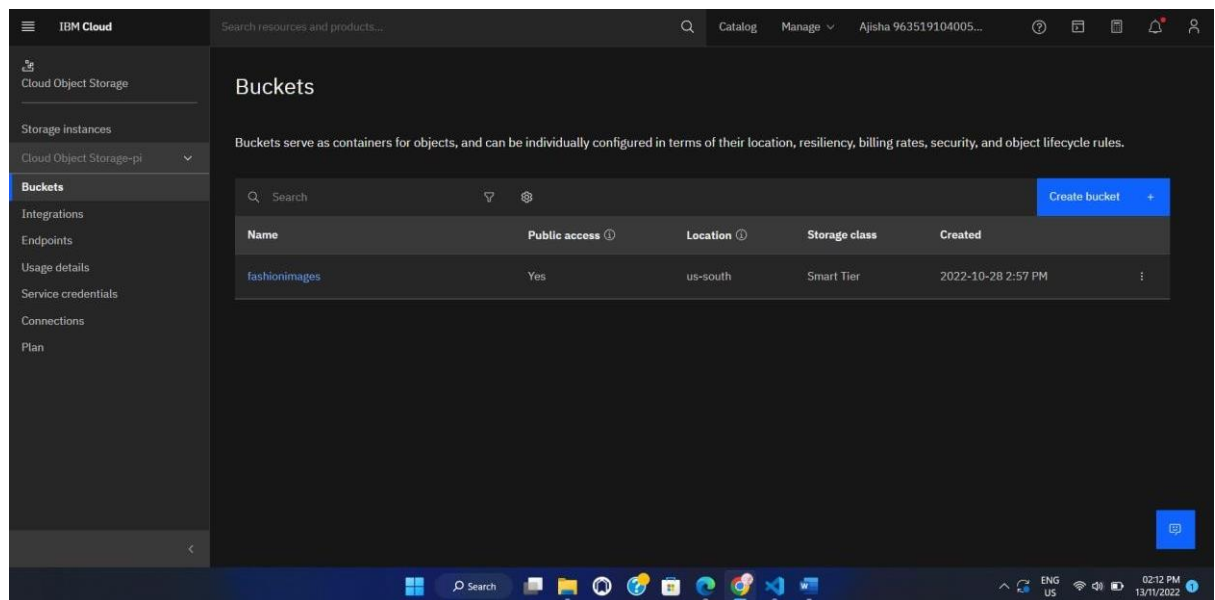
The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying a project named 'FLASK'. The file explorer lists various files including '._pyscache_', 'venv', 'Include', 'Lib', 'Scripts', '.gitignore', 'Dockerfile', 'pyvenv.cfg', and 'app.py'. The 'Dockerfile' file is open in the editor, showing the following Dockerfile content:

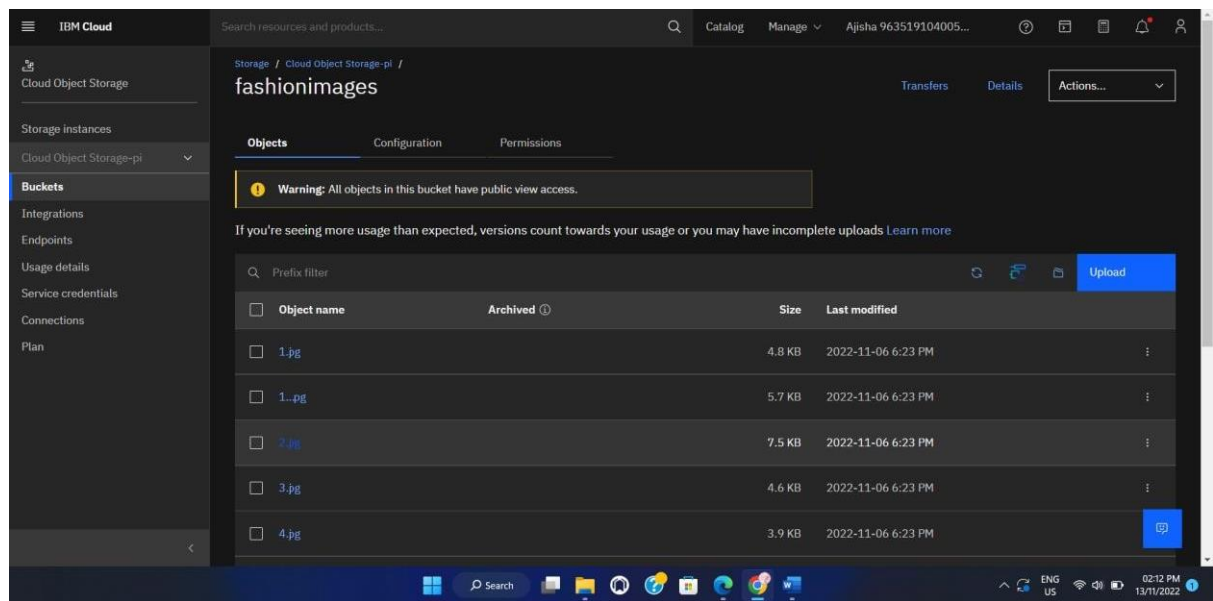
```
1 FROM python:2.7
2 LABEL maintainer="Kunal Malhotra, kunal.malhotra@ibm.com"
3 RUN apt-get update
4 RUN mkdir /app
5 WORKDIR /app
6 COPY . /app
7 RUN pip install -r requirements.txt
8 EXPOSE 5000
9 ENTRYPOINT [ "python" ]
10 CMD [ "app.py" ]
```

The terminal window at the bottom shows the output of the 'docker --help' command, displaying various options for running Docker containers. The status bar at the bottom indicates the cursor is at line 10, column 19, with 4 spaces, UTF-8 encoding, CRLF line endings, and the Docker engine selected. The system tray shows the date and time as 04:10 PM on 09/11/2022.



3. Upload images to cloud





4. Create responsive design for the application

