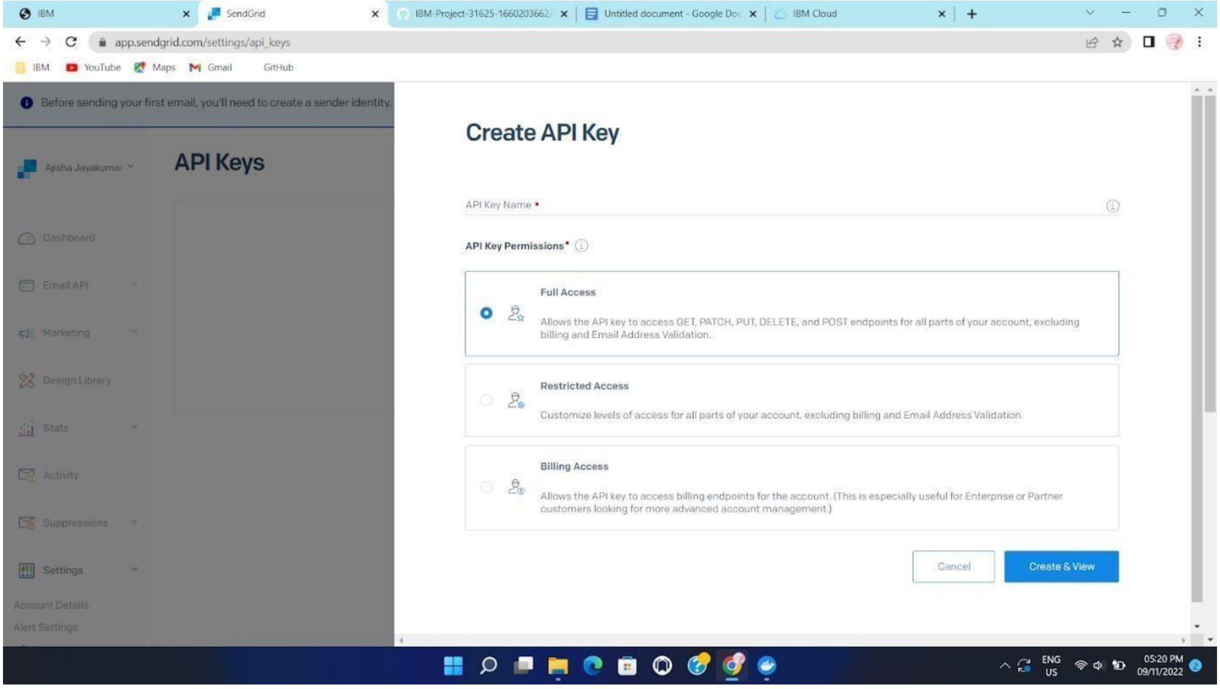
PROJECT DEVELOPMENT PHASE

SPRINT 4

Date	18 October 2022
Team ID	PNT2022TMID19420
Project Name	Smart Fashion Recommender
Maximum Marks	8 Marks

1. Sendgrid integration with python



Before sending your first email, you'll need to create a sender identity.

API Keys

Create API Key

API Key Name *

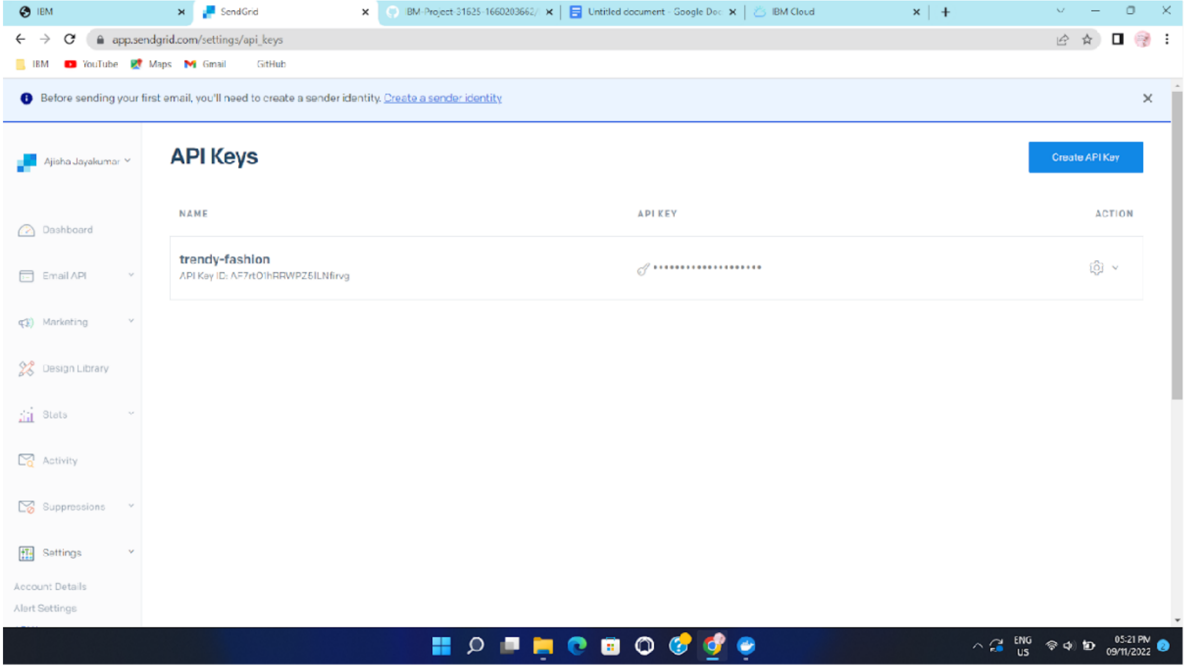
API Key Permissions*

● Full Access
Allows the API key to access GET, PATCH, PUT, DELETE, and POST endpoints for all parts of your account, excluding billing and Email Address Validation.

○ Restricted Access
Customize levels of access for all parts of your account, excluding billing and Email Address Validation.

○ Billing Access
Allows the API key to access billing endpoints for the account. (This is especially useful for Enterprise or Partner customers looking for more advanced account management.)

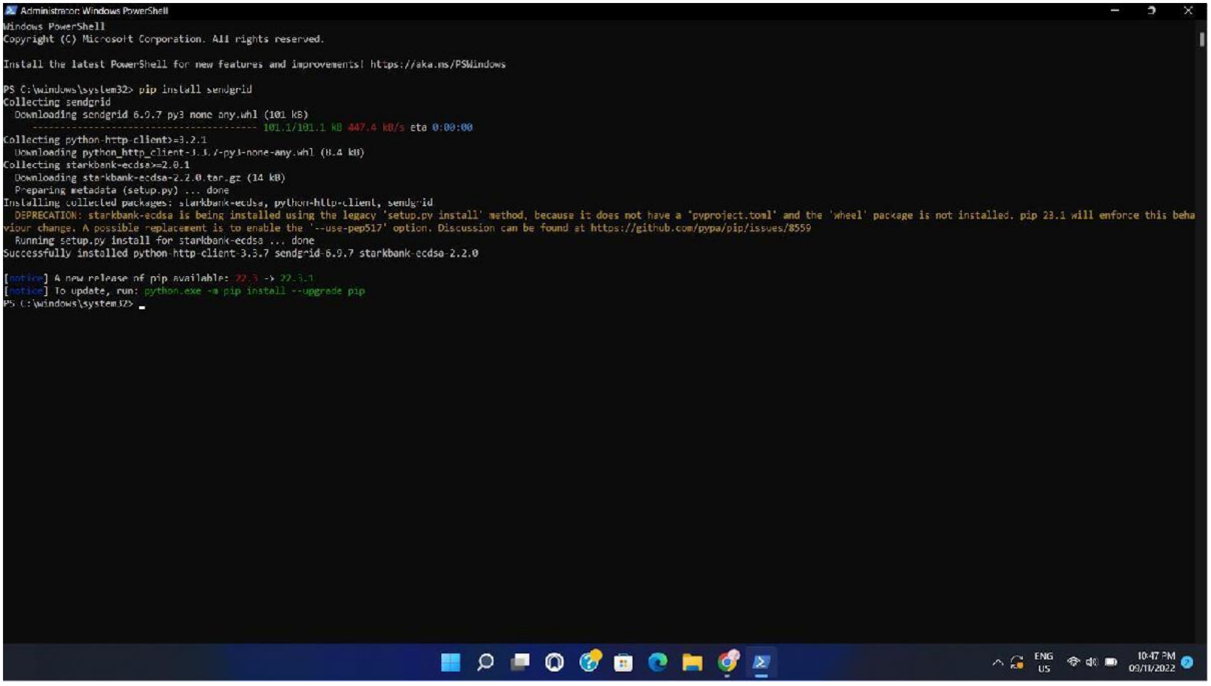
Cancel | Create & View



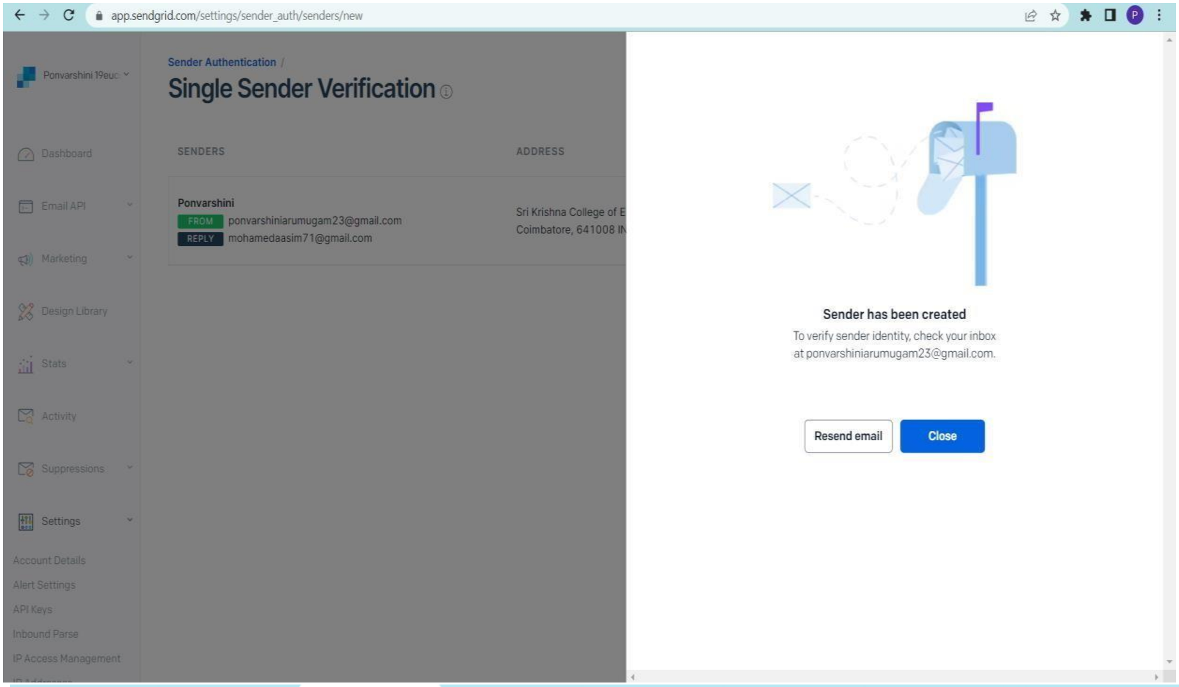
Before sending your first email, you'll need to create a sender identity. Create a sender identity

API Keys

NAME	API KEY	ACTION
trendy-fashion API Key ID: AF7rtO1hRRWPZ5ILNfirvg	••••••••••••••••••••	



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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 beha
viour 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> _
```



app.sendgrid.com/settings/sender_auth/senders/new

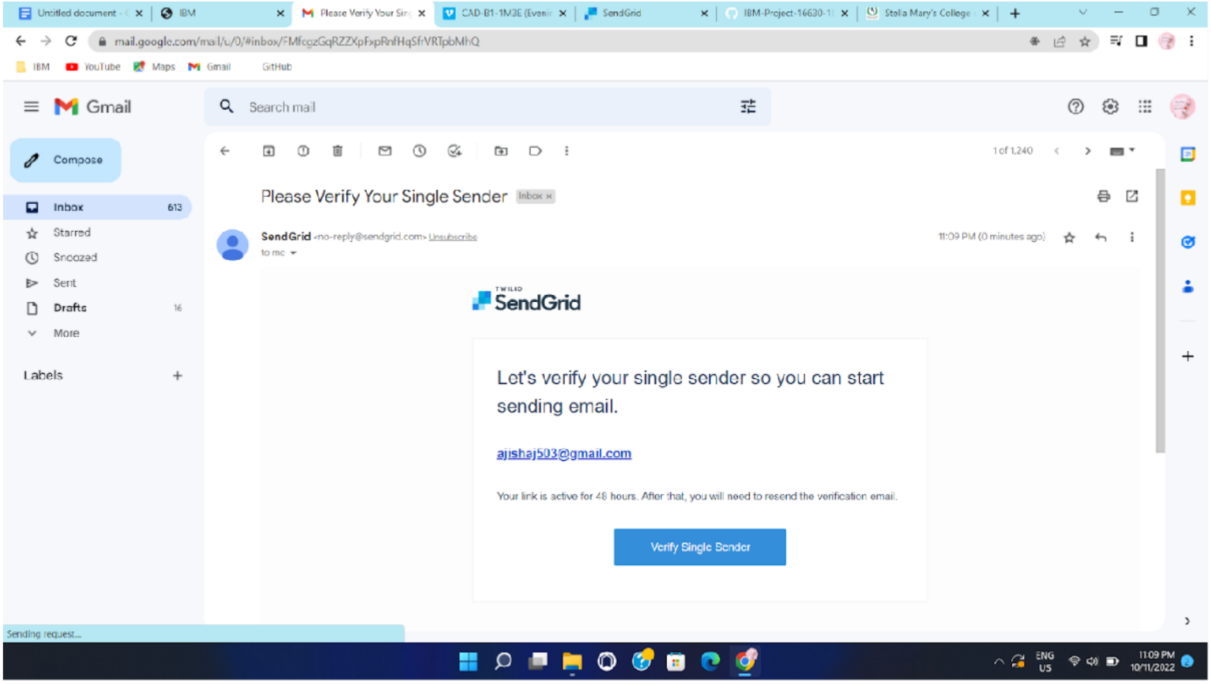
Sender Authentication /

Single Sender Verification

SENDERS	ADDRESS
Ponvarshini FROM ponvarshiniarumugam23@gmail.com REPLY mohamedaasim71@gmail.com	Sri Krishna College of E Coimbatore, 641008 IN

Sender has been created

To verify sender identity, check your inbox at ponvarshiniarumugam23@gmail.com.



mail.google.com/mail/u/0/#inbox/FMfcgzGqRZZXpFxpRnfHqSfrVRTpbMhQ

Please Verify Your Single Sender

SendGrid <no-reply@sendgrid.com> Unsubscribe

to me

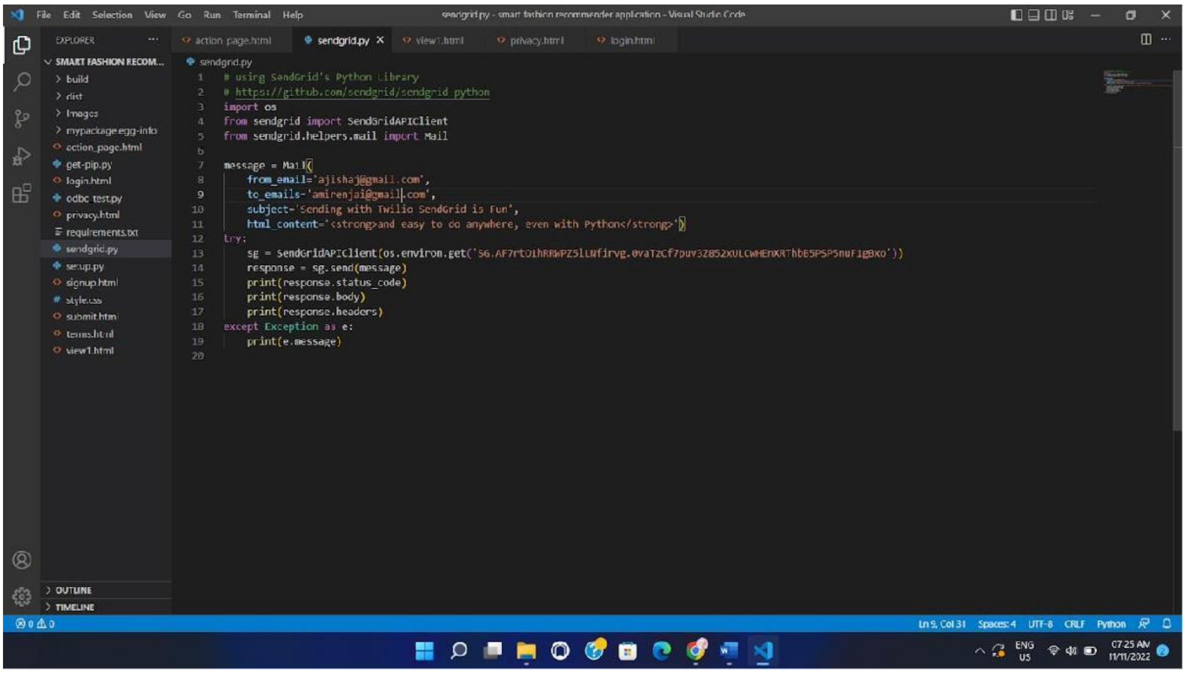
11:09 PM (0 minutes ago)

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

ajishaj503@gmail.com

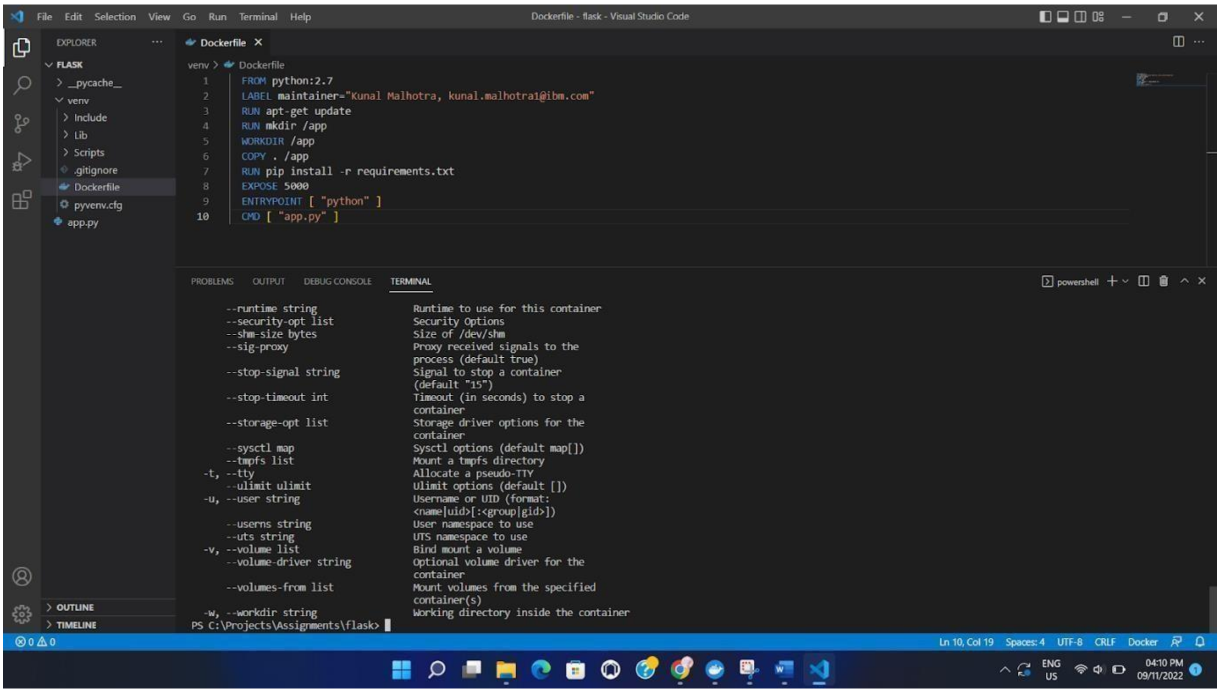
Your link is active for 48 hours. After that, you will need to resend the verification email.

Verify Single Sender



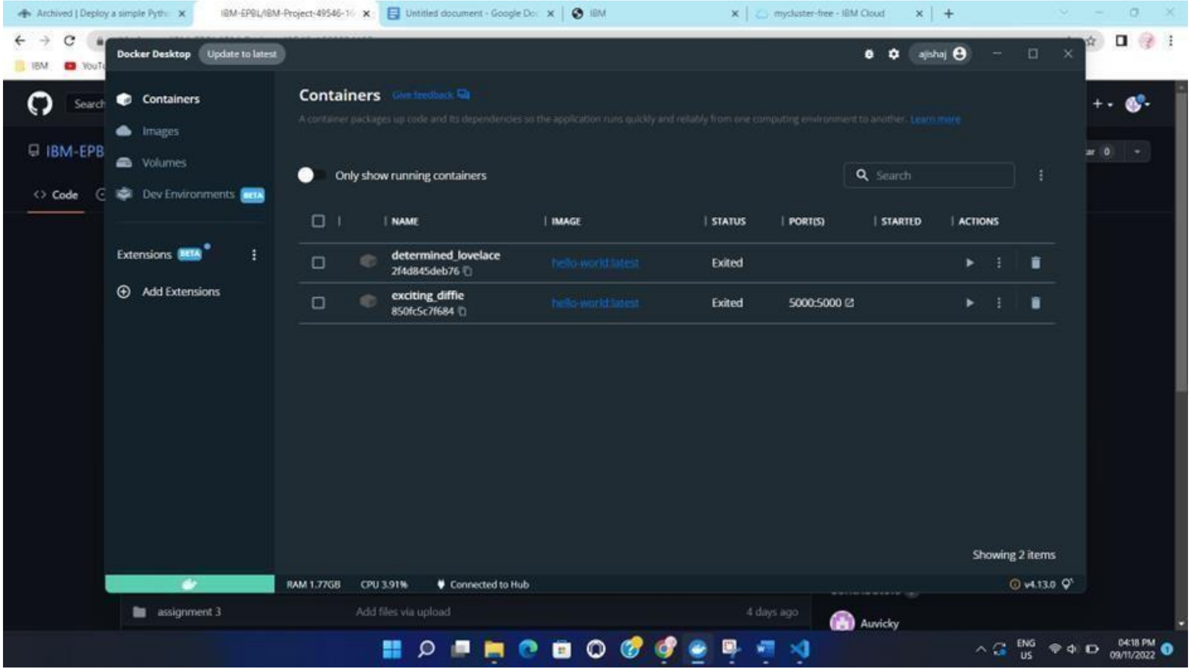
```python
# using SendGrid's Python Library
# https://github.com/sendgrid/sendgrid-python
import os
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail

message = Mail(
    from_email='ajishaj@gmail.com',
    to_emails='amirenjai@gmail.com',
    subject='Sending with Twilio SendGrid is Fun',
    html_content='<strong>and easy to do anywhere, even with Python</strong>')
try:
    sg = SendGridAPIClient(os.environ.get('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'))
    response = sg.send(message)
    print(response.status_code)
    print(response.body)
    print(response.headers)
except Exception as e:
    print(e.message)
```

2. Containerize the application



```dockerfile
FROM python:2.7
LABEL maintainer="Kunal Malhotra, kunal.malhotra1@ibm.com"
RUN apt-get update
RUN mkdir /app
WORKDIR /app
COPY . /app
RUN pip install -r requirements.txt
EXPOSE 5000
ENTRYPOINT [ "python" ]
CMD [ "app.py" ]
```

```
      --runtime string             Runtime to use for this container
      --security-opt list          Security Options
      --shm-size bytes             Size of /dev/shm
      --sig-proxy                  Proxy received signals to the
                                   process (default true)
      --stop-signal string         Signal to stop a container
                                   (default "15")
      --stop-timeout int           Timeout (in seconds) to stop a
                                   container
      --storage-opt list           Storage driver options for the
                                   container
      --sysctl map                 Sysctl options (default map[])
      --tmpfs list                 Mount a tmpfs directory
  -t, --tty                        Allocate a pseudo-TTY
      --ulimit ulimit              Ulimit options (default [])
  -u, --user string                Username or UID (format:
                                   <name|uid>[:<group|gid>])
      --userns string              User namespace to use
      --uts string                 UTS namespace to use
  -v, --volume list                Bind mount a volume
      --volume-driver string       Optional volume driver for the
                                   container
      --volumes-from list          Mount volumes from the specified
                                   container(s)
  -w, --workdir string             Working directory inside the container
PS C:\Projects\Assignments\flask>
```



Docker Desktop

Containers

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more

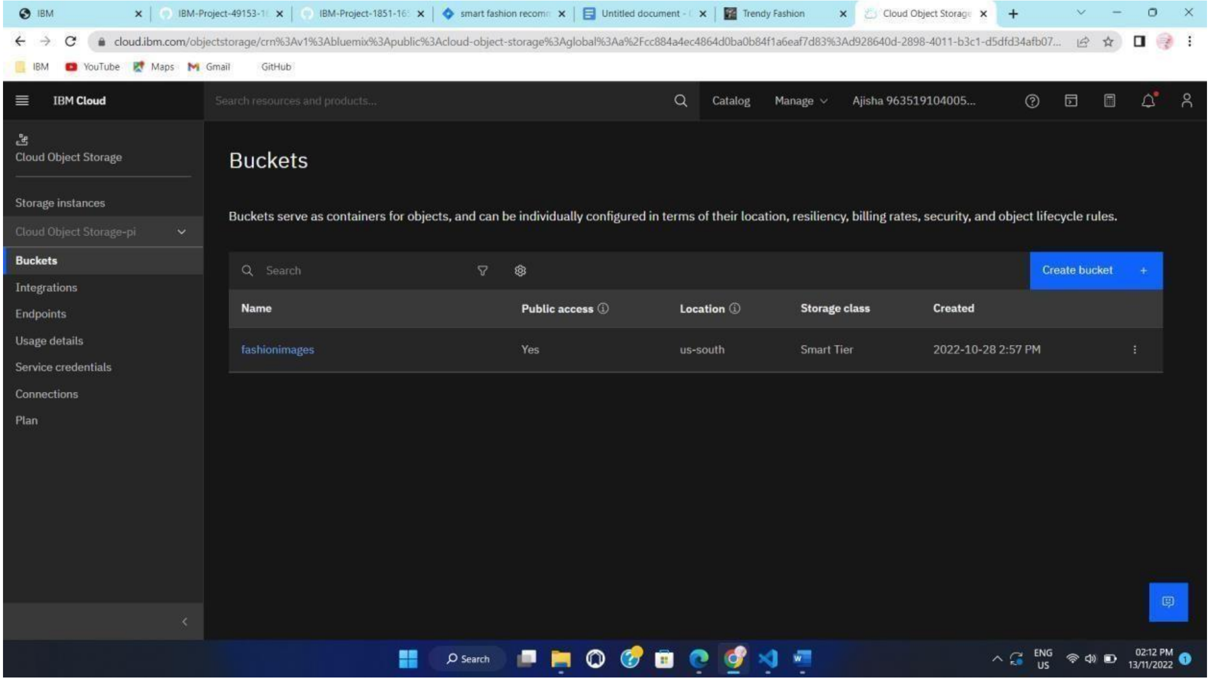
○ Only show running containers

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
□	determined_lovelace 2f4d845deb76	hello-world:latest	Exited			
□	exciting_diffie 850fc5c7f684	hello-world:latest	Exited	5000:5000		

Showing 2 items

RAM 1.77GB CPU 3.91% Connected to Hub v4.13.0

3. Upload images to cloud

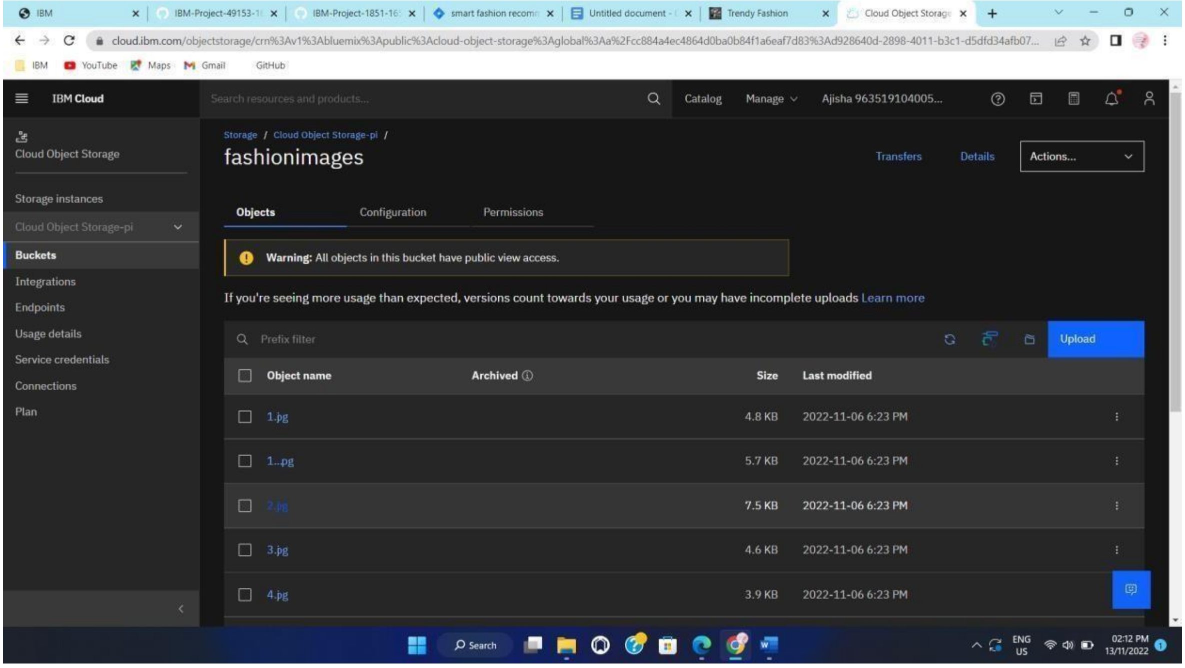


cloud.ibm.com/objectstorage/crn%3Av1%3Abluemix%3Apublic%3Acloud-object-storage%3Aglobal%3Aa%2Fcc884a4ec4864d0ba0b84f1a6eaf7d83%3Ad928640d-2898-4011-b3c1-d5dfd34afb07...

Buckets

Buckets serve as containers for objects, and can be individually configured in terms of their location, resiliency, billing rates, security, and object lifecycle rules.

Name	Public access	Location	Storage class	Created
fashionimages	Yes	us-south	Smart Tier	2022-10-28 2:57 PM



Storage / Cloud Object Storage-pi /

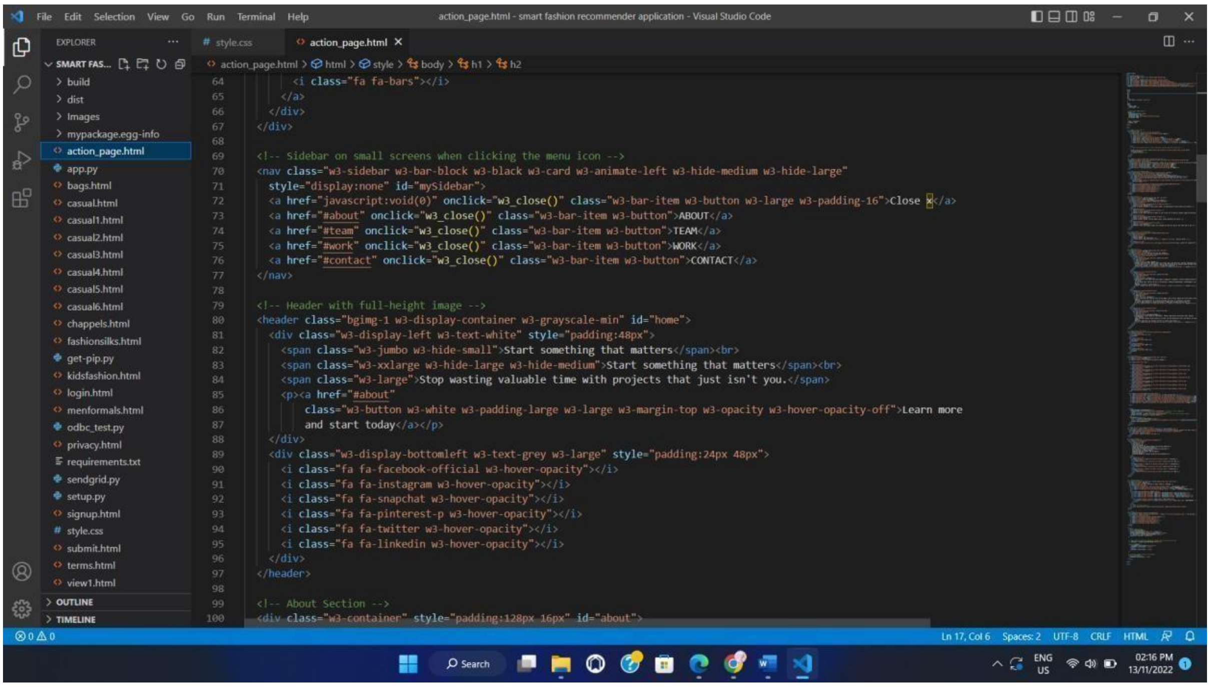
fashionimages

Warning: All objects in this bucket have public view access.

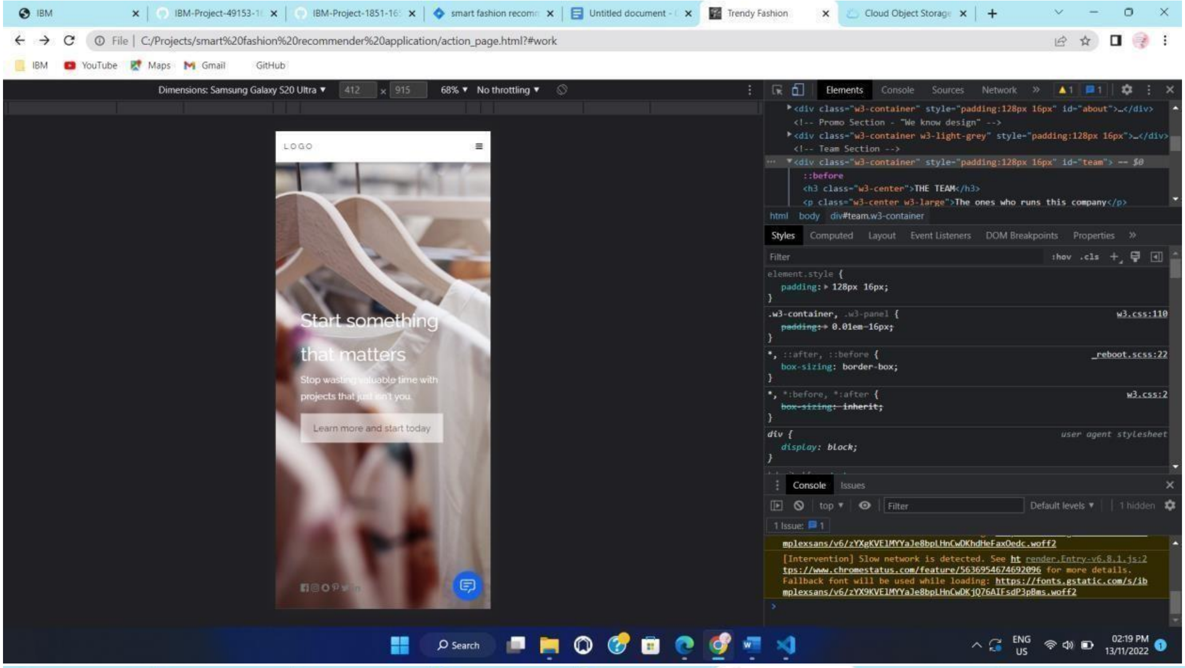
If you're seeing more usage than expected, versions count towards your usage or you may have incomplete uploads Learn more

□	Object name	Archived	Size	Last modified
□	1.jpg		4.8 KB	2022-11-06 6:23 PM
□	1...pg		5.7 KB	2022-11-06 6:23 PM
□	2.jpg		7.5 KB	2022-11-06 6:23 PM
□	3.jpg		4.6 KB	2022-11-06 6:23 PM
□	4.jpg		3.9 KB	2022-11-06 6:23 PM

4. Create responsive design for the application



```html
      <i class="fa fa-bars"></i>
    </a>
  </div>
</div>

<!-- Sidebar on small screens when clicking the menu icon -->
<nav class="w3-sidebar w3-bar-block w3-black w3-card w3-animate-left w3-hide-medium w3-hide-large"
  style="display:none" id="mySidebar">
  <a href="javascript:void(0)" onclick="w3_close()" class="w3-bar-item w3-button w3-large w3-padding-16">Close ×</a>
  <a href="#about" onclick="w3_close()" class="w3-bar-item w3-button">ABOUT</a>
  <a href="#team" onclick="w3_close()" class="w3-bar-item w3-button">TEAM</a>
  <a href="#work" onclick="w3_close()" class="w3-bar-item w3-button">WORK</a>
  <a href="#contact" onclick="w3_close()" class="w3-bar-item w3-button">CONTACT</a>
</nav>

<!-- Header with full-height image -->
<header class="bgimg-1 w3-display-container w3-grayscale-min" id="home">
  <div class="w3-display-left w3-text-white" style="padding:48px">
    <span class="w3-jumbo w3-hide-small">Start something that matters</span><br>
    <span class="w3-xxlarge w3-hide-large w3-hide-medium">Start something that matters</span><br>
    <span class="w3-large">Stop wasting valuable time with projects that just isn't you.</span>
    <p><a href="#about"
        class="w3-button w3-white w3-padding-large w3-large w3-margin-top w3-opacity w3-hover-opacity-off">Learn more
        and start today</a></p>
  </div>
  <div class="w3-display-bottomleft w3-text-grey w3-large" style="padding:24px 48px">
    <i class="fa fa-facebook-official w3-hover-opacity"></i>
    <i class="fa fa-instagram w3-hover-opacity"></i>
    <i class="fa fa-snapchat w3-hover-opacity"></i>
    <i class="fa fa-pinterest-p w3-hover-opacity"></i>
    <i class="fa fa-twitter w3-hover-opacity"></i>
    <i class="fa fa-linkedin w3-hover-opacity"></i>
  </div>
</header>

<!-- About Section -->
<div class="w3-container" style="padding:128px 16px" id="about">
```



LOGO

Start something that matters

Stop wasting valuable time with projects that just isn't you.

Learn more and start today

```
▸<div class="w3-container" style="padding:128px 16px" id="about">…</div>
 <!-- Promo Section - "We know design" -->
▸<div class="w3-container w3-light-grey" style="padding:128px 16px">…</div>
 <!-- Team Section -->
▾<div class="w3-container" style="padding:128px 16px" id="team"> == $0
   ::before
   <h3 class="w3-center">THE TEAM</h3>
   <p class="w3-center w3-large">The ones who runs this company</p>
```

html body div#team.w3-container

Styles Computed Layout Event Listeners DOM Breakpoints Properties

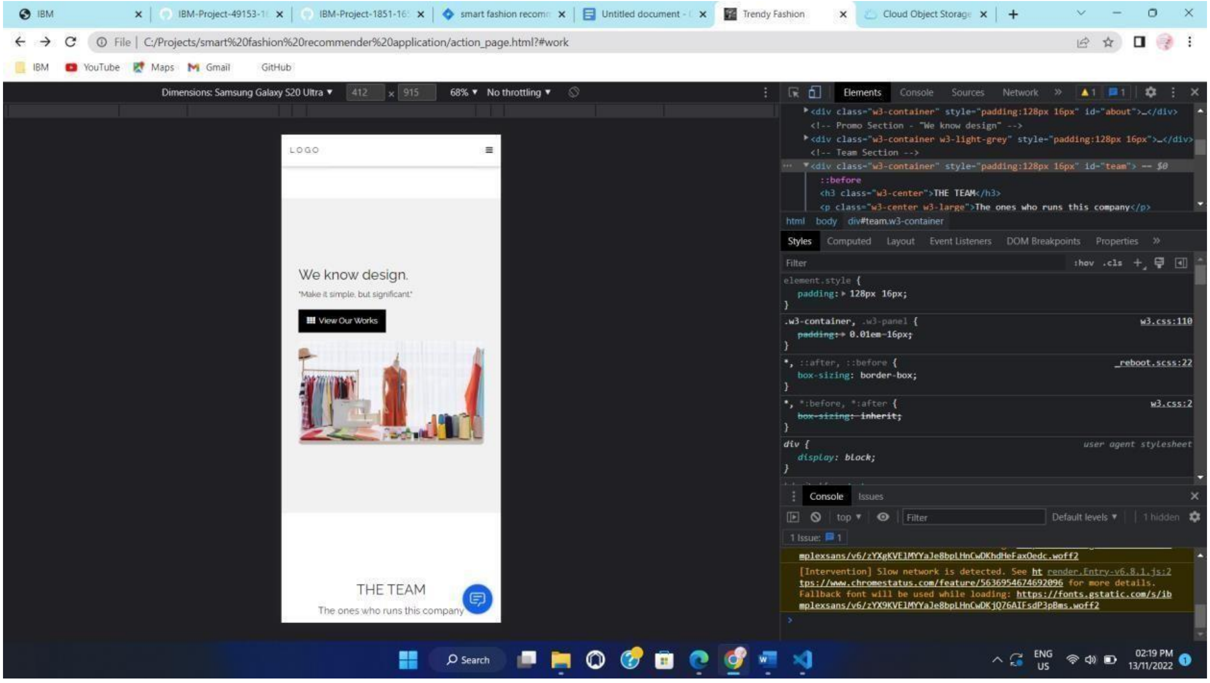
```
element.style {
  padding: ▸ 128px 16px;
}
.w3-container, .w3-panel {                          w3.css:110
  ~~padding: ▸ 0.01em 16px;~~
}
*, ::after, ::before {                        _reboot.scss:22
  box-sizing: border-box;
}
*, *:before, *:after {                              w3.css:2
  ~~box-sizing: inherit;~~
}
div {                                   user agent stylesheet
  display: block;
}
```

Console Issues

top ▾ Filter Default levels ▾ 1 hidden

1 Issue: 1

```
mplexsans/v6/zYXgKVElMYYaJe8bpLHnCwDKhdHeFaxOedc.woff2
[Intervention] Slow network is detected. See ht render.Entry-v6.8.1.js:2
tps://www.chromestatus.com/feature/5636954674692096 for more details.
Fallback font will be used while loading: https://fonts.gstatic.com/s/ib
mplexsans/v6/zYX9KVElMYYaJe8bpLHnCwDKjQ76AIFsdP3pBms.woff2
```



LOGO

We know design.

"Make it simple, but significant"

View Our Works

THE TEAM

The ones who runs this company

```
▸<div class="w3-container" style="padding:128px 16px" id="about">…</div>
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```

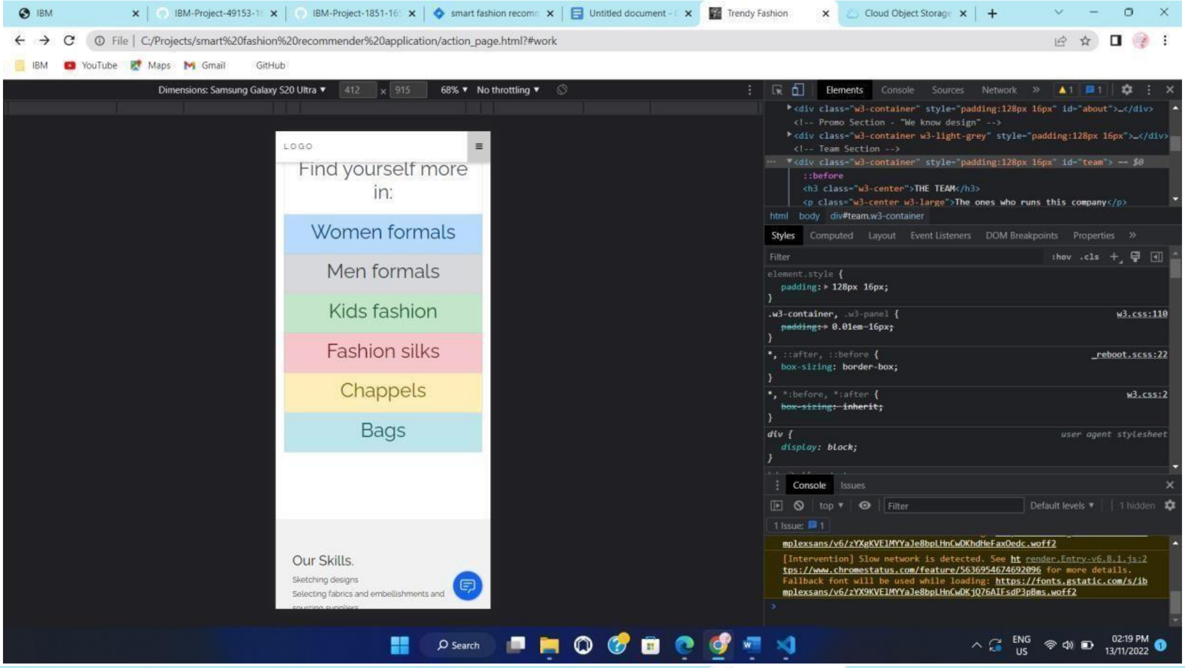

C:/Projects/smart%20fashion%20recommender%20application/action_page.html?#work

Find yourself more in:

- Women formals
- Men formals
- Kids fashion
- Fashion silks
- Chappels
- Bags

Our Skills.

Sketching designs

Selecting fabrics and embellishments and sourcing suppliers

```
▸<div class="w3-container" style="padding:128px 16px" id="about">…</div>
 <!-- Promo Section - "We know design" -->
▸<div class="w3-container w3-light-grey" style="padding:128px 16px">…</div>
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html body div#team.w3-container

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.w3-container, .w3-panel {                              w3.css:110
  padding: ▸ 0.01em-16px;
}
*, ::after, ::before {                             _reboot.scss:22
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}
*, *:before, *:after {                                    w3.css:2
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```

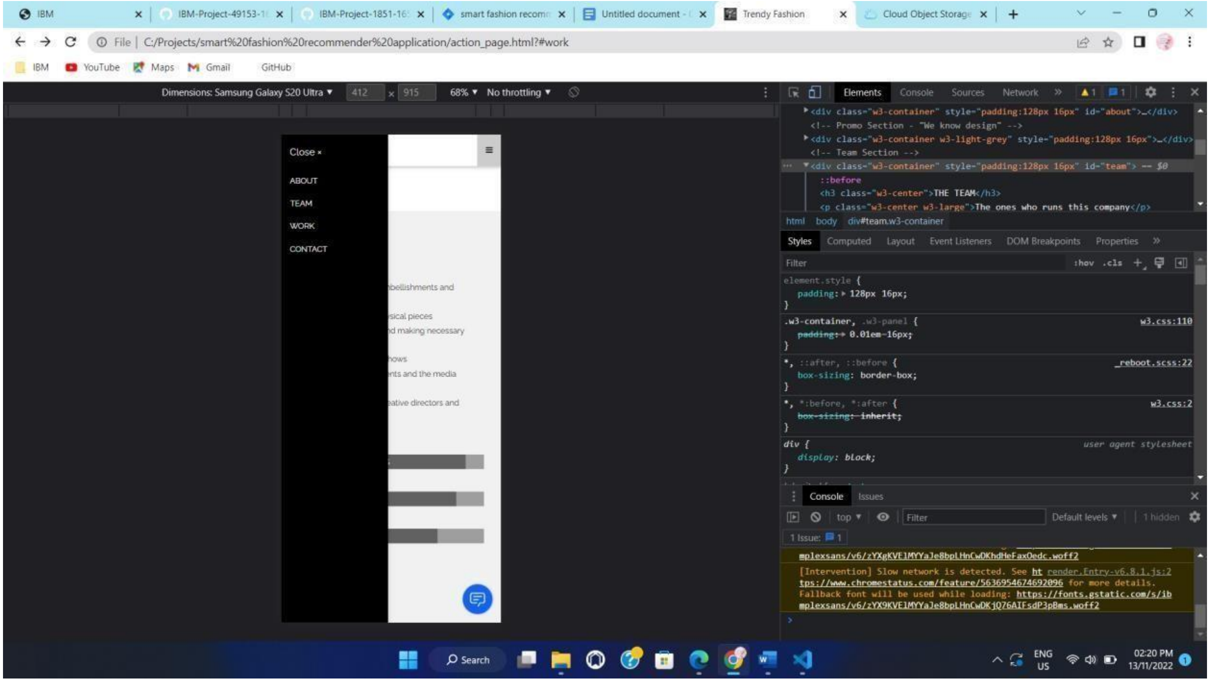

C:/Projects/smart%20fashion%20recommender%20application/action_page.html?#work

bellishments and

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eative directors and

```
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```