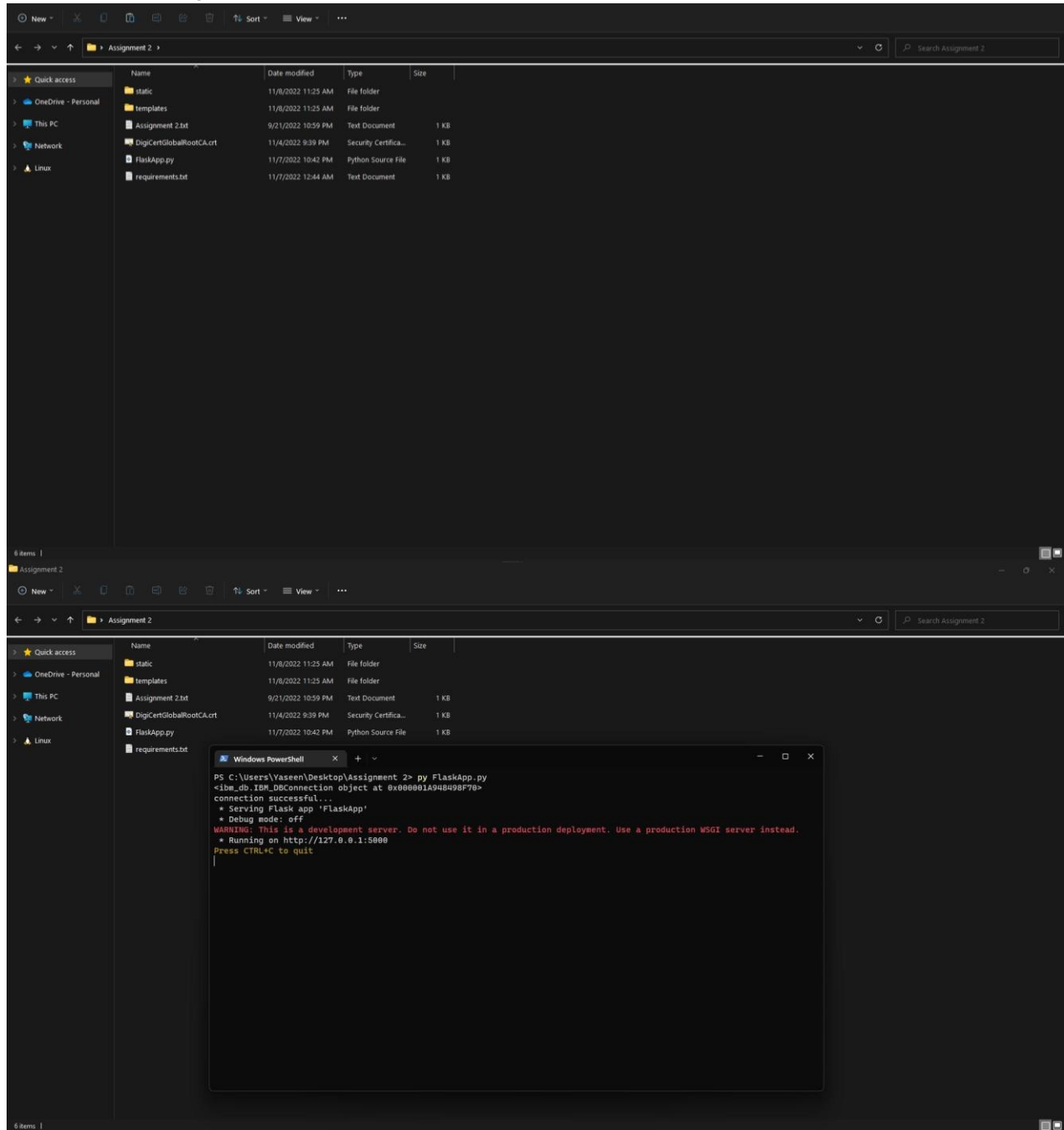
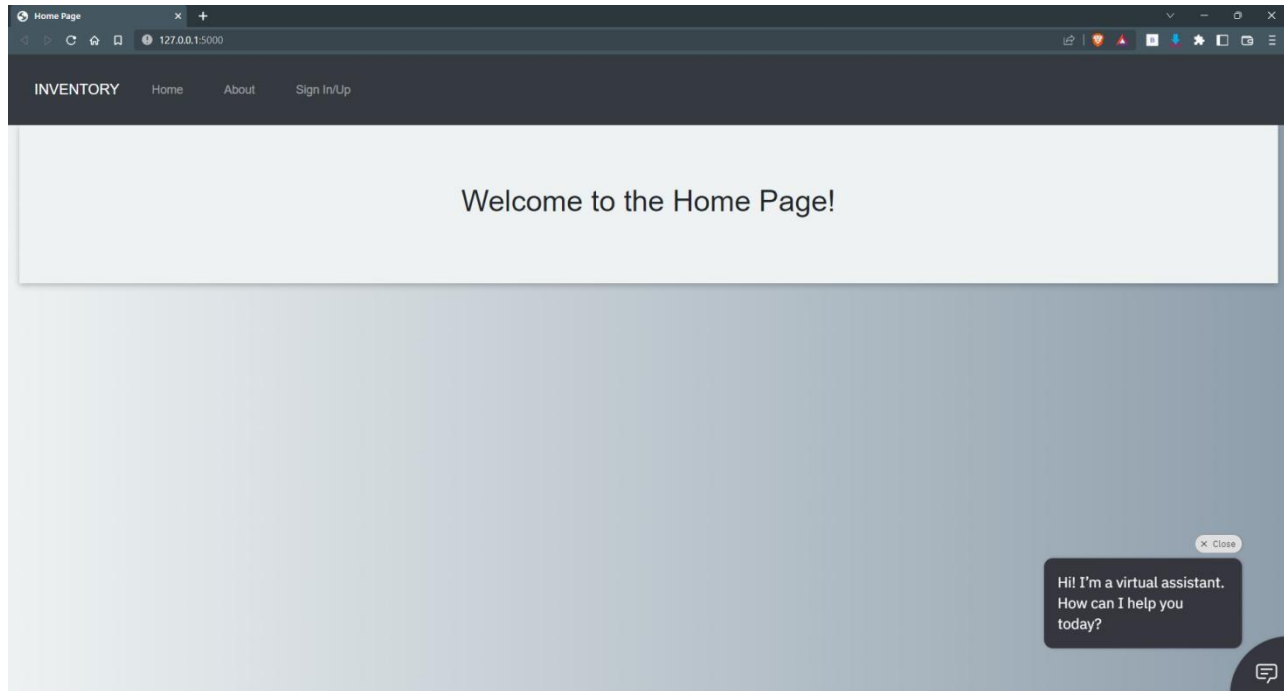


# Setting Up Application Environment

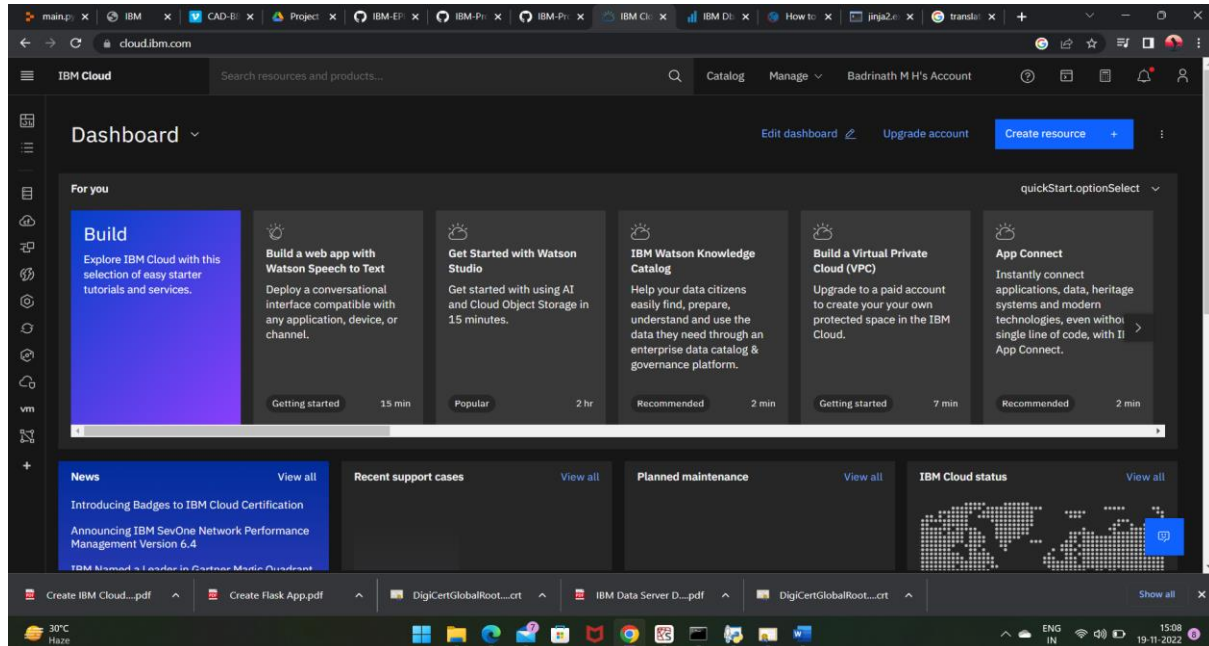
Date	31 October 2022
Team ID	PNT2022TMID48534
Project Name	Project – Inventory Management System for Retailers

## Flask Project:





## Create IBM Cloud Account:



# Install IBM Cloud CLI:

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

PS C:\Users\Vaseen> ibmcloud update
Checking for updates...
No update required. Your CLI is already up-to-date.
To view available plugin updates, run 'C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin list'.
PS C:\Users\Vaseen> ibmcloud --v
C:\Program Files\IBM\Cloud\bin\ibmcloud.exe version 2.12.1+b8488a1-2022-10-31T15:08:10+00:00
PS C:\Users\Vaseen> |
```

## Docker Setup:

Getting Started

Getting Started

Our Application

Updating our App

Sharing our App

Persisting our DB

Using Bind Mounts

Multi-Container Apps

Using Docker Compose

Image Building Best Practices

What Next?

### Getting Started

#### The command you just ran

Congratulations! You have started the container for this tutorial! Let's first explain the command that you just ran. In case you forgot, here's the command:

```
docker run -d -p 80:80 docker/getting-started
```

You'll notice a few flags being used. Here's some more info on them:

- `-d` - run the container in detached mode (in the background)
- `-p 80:80` - map port 80 of the host to port 80 in the container
- `docker/getting-started` - the image to use

Pro tip

You can combine single character flags to shorten the full command. As an example, the command above could be written as:

```
docker run -dp 80:80 docker/getting-started
```

#### The Docker Dashboard

Before going too far, we want to highlight the Docker Dashboard, which gives you a quick view of the containers running on your machine. It gives you quick access to container logs, lets you net

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The command you just ran

The Docker Dashboard

What is a container?

What is a container image?

Containers

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Extensions

Add Extensions

Containers

Only show running containers

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	Test	aman/latest	Exited	4971:5000		<div></div>
<input type="checkbox"/>	laughing_brattain	aman/latest	Exited	5000:5000		<div></div>
<input type="checkbox"/>	eager_elbakyan	docker/getting-started:latest	Running	80:80	11 seconds ago	<div></div>

Windows PowerShell

Windows PowerShell

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PS C:\Users\Vaseen> docker --v

Docker version 20.10.20, build 9fdeb9c

PS C:\Users\Vaseen> |

Showing 3 items

# Create an account in SendGrid:

The screenshot shows the SendGrid dashboard for a user named Mohamed Yaseen. The left sidebar contains navigation links: Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, Settings, and Twilio SMS. The main content area features a welcome message and a guide to sending the first email. The guide includes a section titled 'Send your first emails with Twilio SendGrid' which instructs the user to 'Create a sender identity'. It explains that a sender identity is the 'from' email address and provides two options: 'Create a Single Sender' (highlighted in blue) and 'Authenticate a domain instead'. A diagram illustrates the sender identity as 'Your Business' with an email address 'jane.doe@your\_business.com'. Below this, a section titled 'Send your first email' states 'Please create a sender identity before sending your first email.' At the bottom, there is a section titled 'Remove email sending limits'.

SendGrid

app.sendgrid.com/guide

Mohamed Yaseen

Dashboard

Email API

Marketing

Design Library

Stats

Activity

Suppressions

Settings

Twilio SMS NEW

REPUTATION 100%

VIEW ACCOUNT USAGE

## Welcome, Mohamed!

To get up and running quickly, please follow the steps outlined below.

### Send your first emails with Twilio SendGrid

#### Create a sender identity

Before sending email, you'll need to create a sender identity. There are [two ways](#) to do this, but we recommend creating a Single Sender to get set up quickly and test your email integration.

[Create a Single Sender](#) [Authenticate a domain instead](#)

Your sender identity is the "from" email address your recipients will see in their inbox. [Learn more about this.](#)

Your Business - jane.doe@your\_business.com

#### Send your first email

Please create a sender identity before sending your first email.

#### Remove email sending limits