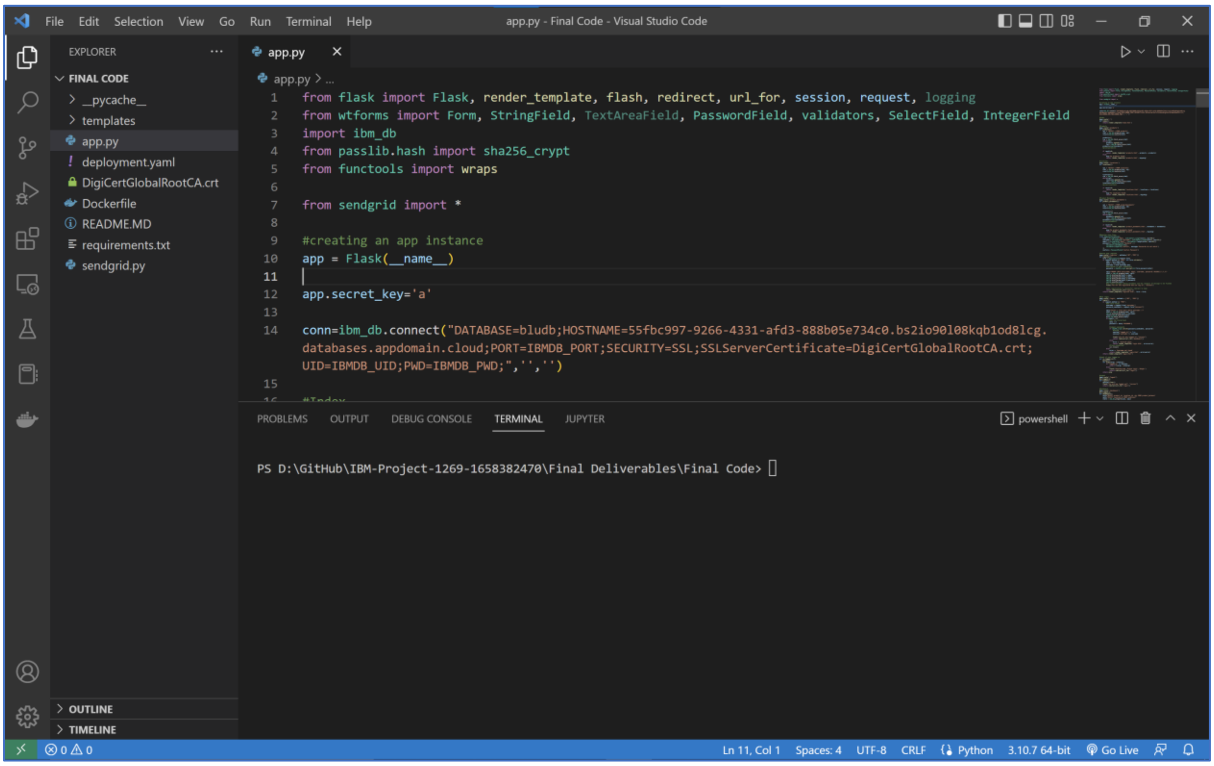
# Pre-Development Phase
# Setting up Application Environment

| | |
|---|---|
| **Date** | 14.11.2022 |
| **Team ID** | PNT2022TMID13093 |
| **Project Name** | Inventory Management System for Retailers |

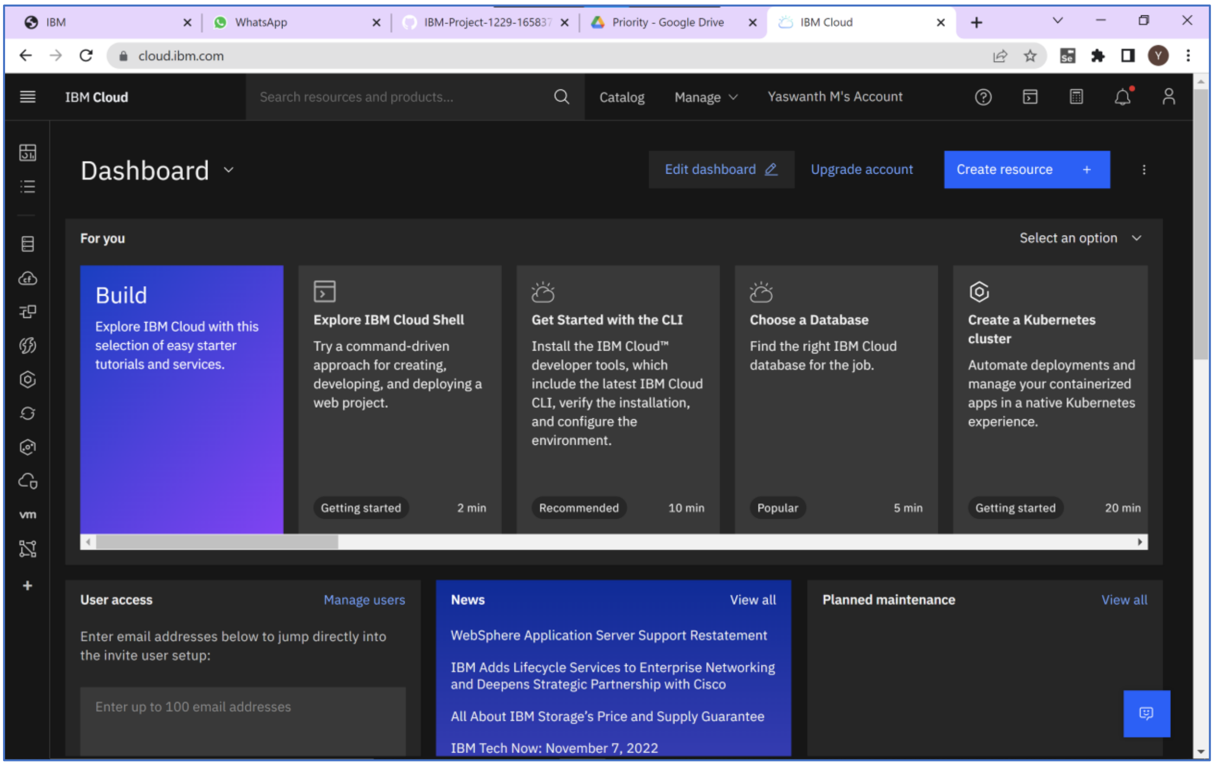
**Creating Flask Project,**



```python
from flask import Flask, render_template, flash, redirect, url_for, session, request, logging
from wtforms import Form, StringField, TextAreaField, PasswordField, validators, SelectField, IntegerField
import ibm_db
from passlib.hash import sha256_crypt
from functools import wraps

from sendgrid import *

#creating an app instance
app = Flask(__name__)

app.secret_key='a'

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=55fbc997-9266-4331-afd3-888b05e734c0.bs2io90l08kqb1od8lcg.
databases.appdomain.cloud;PORT=IBMDB_PORT;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;
UID=IBMDB_UID;PWD=IBMDB_PWD;",'','')
```

```
PS D:\GitHub\IBM-Project-1269-1658382470\Final Deliverables\Final Code>
```

## Creation of IBM Cloud Account,



**Build**

Explore IBM Cloud with this selection of easy starter tutorials and services.

**Explore IBM Cloud Shell**

Try a command-driven approach for creating, developing, and deploying a web project.

Getting started 2 min

**Get Started with the CLI**

Install the IBM Cloud™ developer tools, which include the latest IBM Cloud CLI, verify the installation, and configure the environment.

Recommended 10 min

**Choose a Database**

Find the right IBM Cloud database for the job.

Popular 5 min

**Create a Kubernetes cluster**

Automate deployments and manage your containerized apps in a native Kubernetes experience.

Getting started 20 min

**User access** Manage users

Enter email addresses below to jump directly into the invite user setup:

Enter up to 100 email addresses

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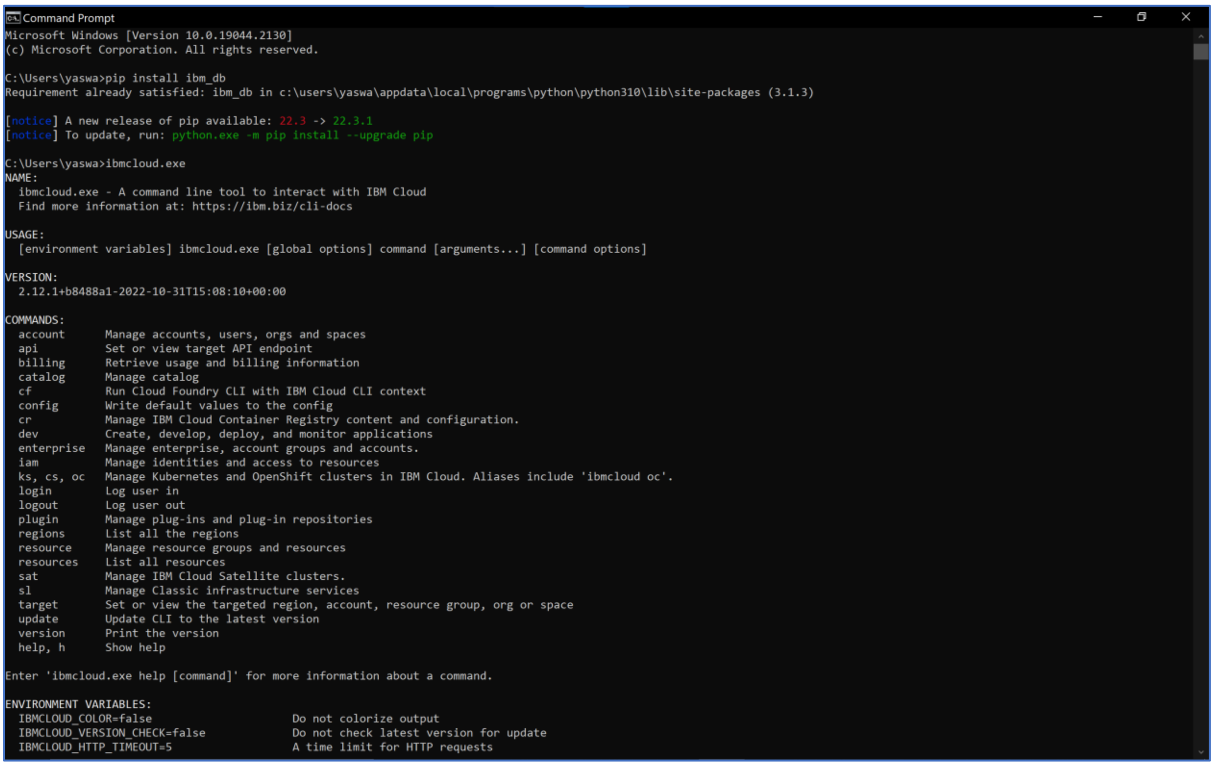
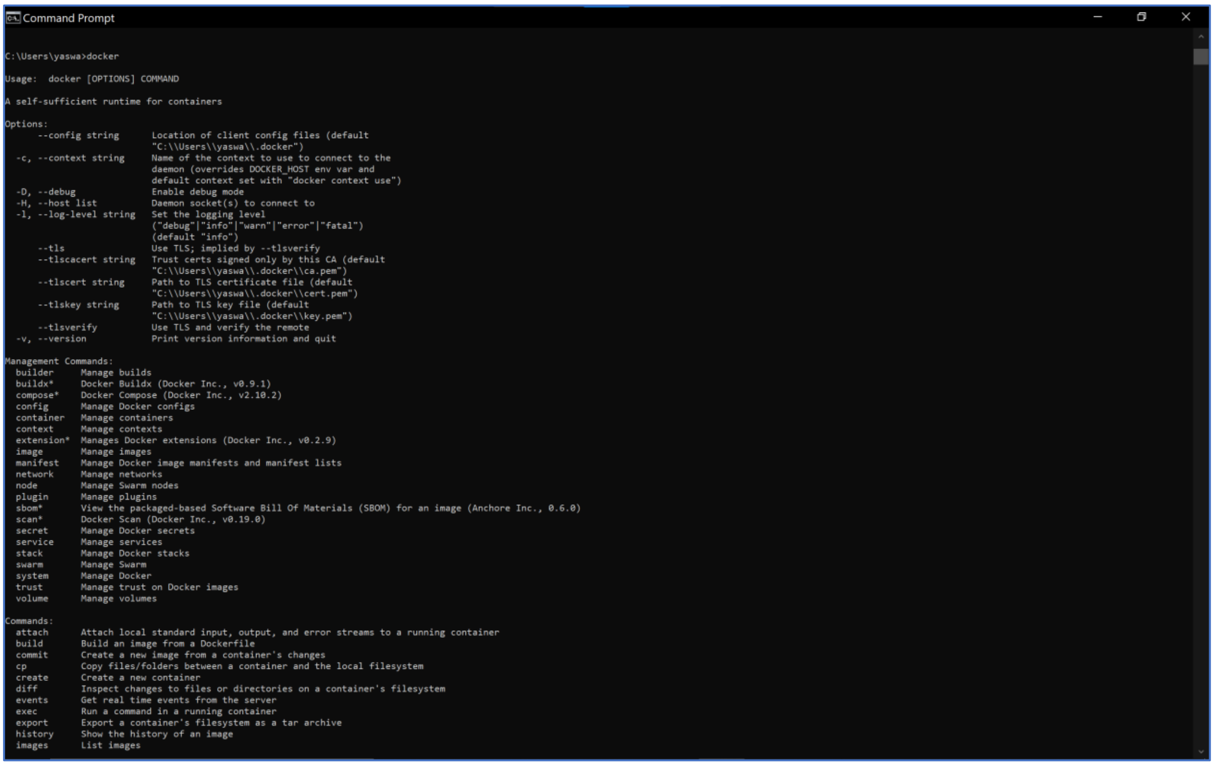
## Install IBM Cloud CLI,



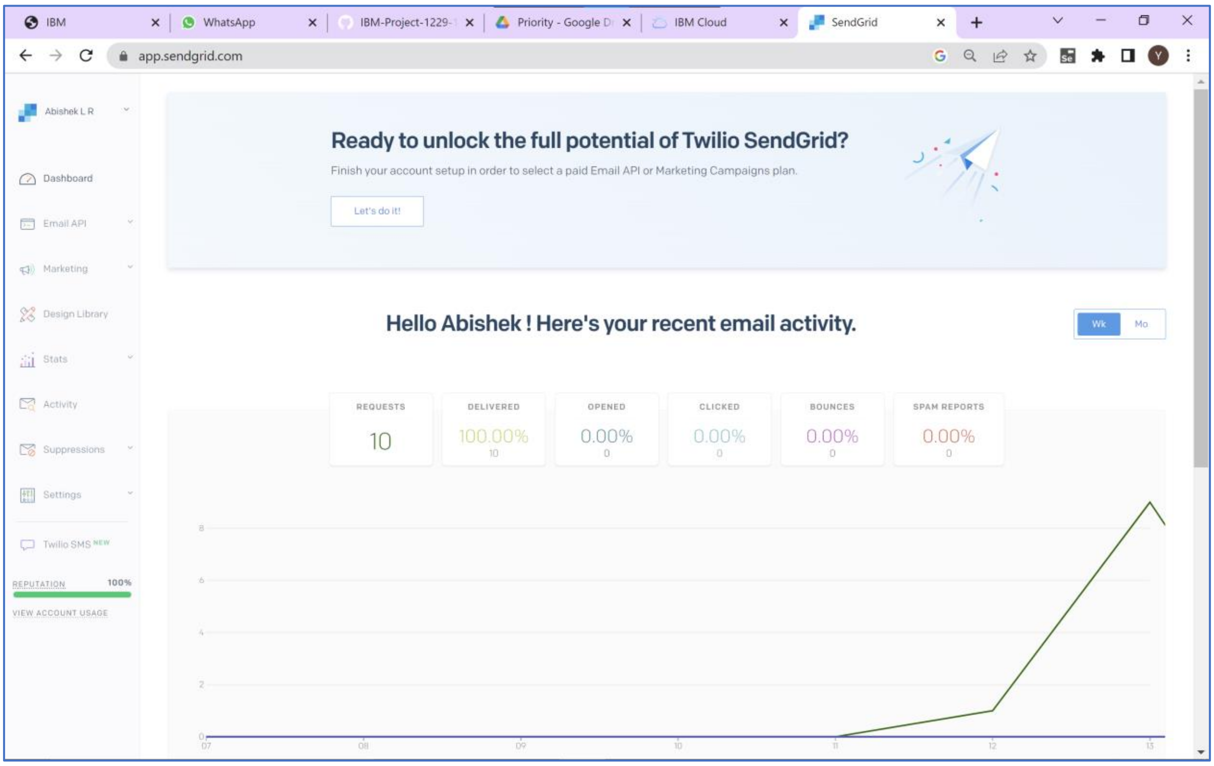
```
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\yaswa>pip install ibm_db
Requirement already satisfied: ibm_db in c:\users\yaswa\appdata\local\programs\python\python310\lib\site-packages (3.1.3)

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

C:\Users\yaswa>ibmcloud.exe
NAME:
  ibmcloud.exe - A command line tool to interact with IBM Cloud
  Find more information at: https://ibm.biz/cli-docs

USAGE:
  [environment variables] ibmcloud.exe [global options] command [arguments...] [command options]

VERSION:
  2.12.1+b8488a1-2022-10-31T15:08:10+00:00

COMMANDS:
  account       Manage accounts, users, orgs and spaces
  api           Set or view target API endpoint
  billing       Retrieve usage and billing information
  catalog       Manage catalog
  cf            Run Cloud Foundry CLI with IBM Cloud CLI context
  config        Write default values to the config
  cr            Manage IBM Cloud Container Registry content and configuration.
  dev           Create, develop, deploy, and monitor applications
  enterprise    Manage enterprise, account groups and accounts.
  iam           Manage identities and access to resources
  ks, cs, oc    Manage Kubernetes and OpenShift clusters in IBM Cloud. Aliases include 'ibmcloud oc'.
  login         Log user in
  logout        Log user out
  plugin        Manage plug-ins and plug-in repositories
  regions       List all the regions
  resource      Manage resource groups and resources
  resources     List all resources
  sat           Manage IBM Cloud Satellite clusters.
  sl            Manage Classic infrastructure services
  target        Set or view the targeted region, account, resource group, org or space
  update        Update CLI to the latest version
  version       Print the version
  help, h       Show help

Enter 'ibmcloud.exe help [command]' for more information about a command.

ENVIRONMENT VARIABLES:
  IBMCLOUD_COLOR=false                      Do not colorize output
  IBMCLOUD_VERSION_CHECK=false              Do not check latest version for update
  IBMCLOUD_HTTP_TIMEOUT=5                   A time limit for HTTP requests
```

## Docker CLI Installation,



```
C:\Users\yaswa>docker

Usage:  docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Options:
      --config string      Location of client config files (default
                           "C:\\Users\\yaswa\\.docker")
  -c, --context string     Name of the context to use to connect to the
                           daemon (overrides DOCKER_HOST env var and
                           default context set with "docker context use")
  -D, --debug              Enable debug mode
  -H, --host list          Daemon socket(s) to connect to
  -l, --log-level string   Set the logging level
                           ("debug"|"info"|"warn"|"error"|"fatal")
                           (default "info")
      --tls                Use TLS; implied by --tlsverify
      --tlscacert string   Trust certs signed only by this CA (default
                           "C:\\Users\\yaswa\\.docker\\ca.pem")
      --tlscert string     Path to TLS certificate file (default
                           "C:\\Users\\yaswa\\.docker\\cert.pem")
      --tlskey string      Path to TLS key file (default
                           "C:\\Users\\yaswa\\.docker\\key.pem")
      --tlsverify          Use TLS and verify the remote
  -v, --version            Print version information and quit

Management Commands:
  builder     Manage builds
  buildx*     Docker Buildx (Docker Inc., v0.9.1)
  compose*    Docker Compose (Docker Inc., v2.10.2)
  config      Manage Docker configs
  container   Manage containers
  context     Manage contexts
  extension*  Manages Docker extensions (Docker Inc., v0.2.9)
  image       Manage images
  manifest    Manage Docker image manifests and manifest lists
  network     Manage networks
  node        Manage Swarm nodes
  plugin      Manage plugins
  sbom*       View the packaged-based Software Bill Of Materials (SBOM) for an image (Anchore Inc., 0.6.0)
  scan*       Docker Scan (Docker Inc., v0.19.0)
  secret      Manage Docker secrets
  service     Manage services
  stack       Manage Docker stacks
  swarm       Manage Swarm
  system      Manage Docker
  trust       Manage trust on Docker images
  volume      Manage volumes

Commands:
  attach      Attach local standard input, output, and error streams to a running container
  build       Build an image from a Dockerfile
  commit      Create a new image from a container's changes
  cp          Copy files/folders between a container and the local filesystem
  create      Create a new container
  diff        Inspect changes to files or directories on a container's filesystem
  events      Get real time events from the server
  exec        Run a command in a running container
  export      Export a container's filesystem as a tar archive
  history     Show the history of an image
  images      List images
```

## Create an Account in SendGrid,



Ready to unlock the full potential of Twilio SendGrid?

Finish your account setup in order to select a paid Email API or Marketing Campaigns plan.

Hello Abishek ! Here's your recent email activity.

| REQUESTS | DELIVERED | OPENED | CLICKED | BOUNCES | SPAM REPORTS |
|---|---|---|---|---|---|
| 10 | 100.00%<br>10 | 0.00%<br>0 | 0.00%<br>0 | 0.00%<br>0 | 0.00%<br>0 |