

IBM-Project-45836-1660732630

Plasma Donor Application

Team ID : PNT2022TMID40957

- **Team Leader: D.S.RAGAMALIGA**
- **Team member1: M.SHABANA ASHMI**
- **Team member2: V.SWARNADEVI**
- **Team member3: R.ABI**

Status :

- **Assignment 1- done**
- **Assignment 2 - done**
- **Assignment 3– done**
- **Assignment 4– done**
- **Project design and planning– done**
- **Project development phase - done**
- **Sprint 1 - done**
- **Sprint 2 – done**
- **Sprint 3 - done**
- **Sprint 4 – done**
- **Final deliverables-done**
- **Coding and solutioning-done**
- **Project report-done**

GITUP FOLDERS

The screenshot shows a web browser window displaying a GitHub repository page. The browser's address bar shows the URL `github.com/IBM-EPBL/IBM-Project-45836-1660732630`. The repository is named "Plasma Donor Application" and has 2 stars, 1 watcher, and 0 forks. The main branch is "main". A notification banner at the top states "Your main branch isn't protected" with a "Protect this branch" button. The file list on the left includes folders for assignments and project phases, and several .docx files. The right sidebar shows sections for Releases, Packages, and Contributors.

main 2 branches 0 tags Go to file Add file <> Code

Your main branch isn't protected
Protect this branch from force pushing, deletion, or require status checks before merging. [Learn more](#) **Protect this branch**

Raagaaa Add files via upload 2f03957 10 days ago 29 commits

ASSIGNMENT 2	Add files via upload	last month
ASSIGNMENT 3	Add files via upload	24 days ago
ASSIGNMENT 4	Add files via upload	19 days ago
ASSIGNMENT1	Add files via upload	last month
Project Design & Planning	Add files via upload	10 days ago
Project Development Phase	Add files via upload	14 days ago
D S RAGAMALIGA.docx	Add files via upload	2 months ago
M SHABANA ASHMI.docx	Add files via upload	2 months ago
R ABL.docx	Add files via upload	2 months ago
V SWARNADEVI.docx	Add files via upload	2 months ago

About
Plasma Donor Application
2 stars
1 watching
0 forks

Releases
No releases published
[Create a new release](#)

Packages
No packages published
[Publish your first package](#)

Contributors 4
Raagaaa
SHABANAIBM

Type here to search 28°C Cloudy 12:55 15-11-2022

ASSIGNMENT 1

The screenshot shows a web browser window displaying a GitHub repository page. The browser's address bar shows the URL: `github.com/IBM-EPBL/IBM-Project-45836-1660732630/tree/main/ASSIGNMENT1`. The repository name is `IBM-EPBL / IBM-Project-45836-1660732630`, marked as `Public`. The page includes navigation links for `Code`, `Issues`, `Pull requests`, `Actions`, `Projects`, `Wiki`, `Security`, `Insights`, and `Settings`. The main content area shows a file upload interface for the `main` branch, with the path `IBM-Project-45836-1660732630 / ASSIGNMENT1 /`. A table lists recent uploads by user `Raagaaa`, including files from `Team leader/D S RAGAMALIGA` and `Team member 1/M SHABANA ASHMI`, all uploaded 'last month'. The interface includes buttons for `Go to file`, `Add file`, and `...`. The Windows taskbar at the bottom shows the search bar, task view, and system tray with a date of 15-11-2022.

Welcome to Project! Delighted to... x IBM x IBM-Project-45836-1660732630/ x +

github.com/IBM-EPBL/IBM-Project-45836-1660732630/tree/main/ASSIGNMENT1

Gmail YouTube Maps

Search or jump to... / Pull requests Issues Codespaces Marketplace Explore

IBM-EPBL / IBM-Project-45836-1660732630 Public

Watch 1 Fork 0 Starred 2

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main / IBM-Project-45836-1660732630 / ASSIGNMENT1 /

Go to file Add file ...

Raagaaa Add files via upload 80a0cc4 last month History

..		
Team leader/D S RAGAMALIGA	Add files via upload	last month
Team member 1/M SHABANA ASHMI	Add files via upload	last month
Team member 2/V SWARNA DEVI	Add files via upload	last month
Team member 3/R ABI	Add files via upload	last month

Give feedback

Type here to search

25°C Cloudy 12:42 15-11-2022

ASSIGNMENT 2

Browser tabs: Welcome to Project! Delighted to... IBM IBM-Project-45836-1660732630/

Address bar: github.com/IBM-EPBL/IBM-Project-45836-1660732630/tree/main/ASSIGNMENT%202

Navigation: Search or jump to... Pull requests Issues Codespaces Marketplace Explore

Repository: IBM-EPBL / IBM-Project-45836-1660732630 (Public) Watch 1 Fork 0 Starred 2

Menu: <> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Breadcrumb: main / IBM-Project-45836-1660732630 / ASSIGNMENT 2 /

Buttons: Go to file Add file ...

Section: Raagaaa Add files via upload 2c4e82a on Oct 4 History

..		
Team leader	Go to parent directory upload	last month
Team member 1	Add files via upload	last month
Team member 2	Add files via upload	last month
Team member 3	Add files via upload	last month

Give feedback

Footer: https://github.com/IBM-EPBL/IBM-Project-45836-1660732630

Taskbar: Type here to search 25°C Cloudy 12:47 15-11-2022

ASSIGNMENT 3

Browser tabs: Welcome to Project! Delighted to... x IBM x IBM-Project-45836-1660732630/ x +

Address bar: github.com/IBM-EPBL/IBM-Project-45836-1660732630/tree/main/ASSIGNMENT%203

Navigation: Search or jump to... Pull requests Issues Codespaces Marketplace Explore

Repository: IBM-EPBL / IBM-Project-45836-1660732630 (Public)

Stats: Watch 1 Fork 0 Starred 2

Navigation: <> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main / IBM-Project-45836-1660732630 / ASSIGNMENT 3 /

Buttons: Go to file Add file ...

Commit: 1aaef236 24 days ago History

Raagaaa Add files via upload		
..		
Team leader	Add files via upload	24 days ago
Team member 1	Add files via upload	24 days ago
Team member 2	Add files via upload	24 days ago
Team member 3	Add files via upload	24 days ago

[Give feedback](#)

Taskbar: Type here to search 25°C Cloudy 12:50 15-11-2022

ASSIGNMENT 4

Browser tabs: Welcome to Project! Delighted to... x IBM x IBM-Project-45836-1660732630/ x +

Address bar: github.com/IBM-EPBL/IBM-Project-45836-1660732630/tree/main/ASSIGNMENT%204

Navigation: Gmail YouTube Maps

GitHub Header: Search or jump to... Pull requests Issues Codespaces Marketplace Explore

Repository: IBM-EPBL / IBM-Project-45836-1660732630 (Public)

Stats: Watch 1 Fork 0 Starred 2

Navigation: <> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Breadcrumb: main / IBM-Project-45836-1660732630 / ASSIGNMENT 4 /

Buttons: Go to file Add file ...

Commit: Raagaaa Add files via upload 46e3d07 19 days ago History

..		
Team leader	Add files via upload	19 days ago
Team member 1	Add files via upload	19 days ago
Team member 2	Add files via upload	19 days ago
Team member 3	Add files via upload	19 days ago

[Give feedback](#)

Taskbar: Type here to search 25°C Cloudy 12:49 15-11-2022

PROJECT DESIGN AND PLANNING

The screenshot shows a web browser displaying a GitHub repository page. The browser's address bar shows the URL: `github.com/IBM-EPBL/IBM-Project-45836-1660732630/tree/main/Project%20Design%20%26%20Planning`. The repository name is `IBM-EPBL / IBM-Project-45836-1660732630`, marked as 'Public'. The page shows the 'main' branch selected, with a breadcrumb path: `main / IBM-Project-45836-1660732630 / Project Design & Planning /`. Below the breadcrumb, there is a table of files and folders in the 'Project Design & Planning' directory. The table has three columns: file/folder name, action, and time ago. The files listed are: `IDEATION PHASE` (14 days ago), `PROJECT DESIGN PHASE 1` (25 days ago), `PROJECT DESIGN PHASE 2` (10 days ago), and `PROJECT PLANNING PHASE` (16 days ago). The actions for the first three are 'Add files via upload', and for the last one, it is 'Delete New Text Document.txt'. At the bottom of the table, there is a link to 'Give feedback'.

File/Folder	Action	Time Ago
..		
IDEATION PHASE	Add files via upload	14 days ago
PROJECT DESIGN PHASE 1	Add files via upload	25 days ago
PROJECT DESIGN PHASE 2	Add files via upload	10 days ago
PROJECT PLANNING PHASE	Delete New Text Document.txt	16 days ago

PROJECT DEVELOPMENT PHASE

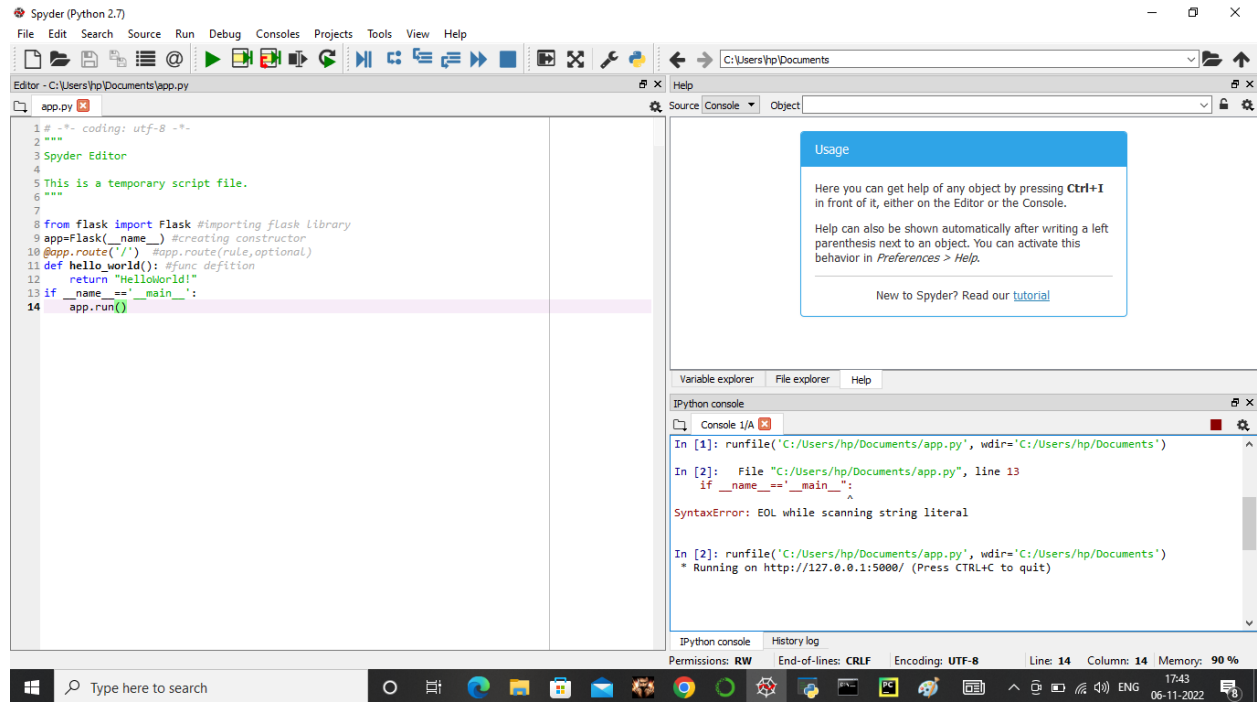
The screenshot shows a web browser window displaying a GitHub repository. The browser's address bar shows the URL: `github.com/IBM-EPBL/IBM-Project-45836-1660732630/tree/main/Project%20Development%20Phase`. The repository page has a dark header with the GitHub logo, a search bar, and navigation links: Pull requests, Issues, Codespaces, Marketplace, and Explore. Below the header, the repository name `IBM-EPBL / IBM-Project-45836-1660732630` is shown, along with 'Public' status, 'Watch' (1), 'Fork' (0), and 'Starred' (2) buttons. A secondary navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The main content area shows a file browser for the `main` branch, displaying the path `IBM-Project-45836-1660732630 / Project Development Phase /`. It features a table of files and folders:

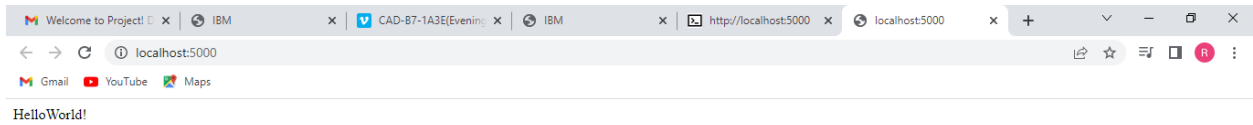
File/Folder	Action	Time
..		
Sprint 1	Add files via upload	14 days ago
Sprint 2	Add files via upload	14 days ago
Sprint 3	Add files via upload	14 days ago
Sprint 4	Add files via upload	14 days ago

Below the table is a 'Give feedback' link. The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 12:52 on 15-11-2022.

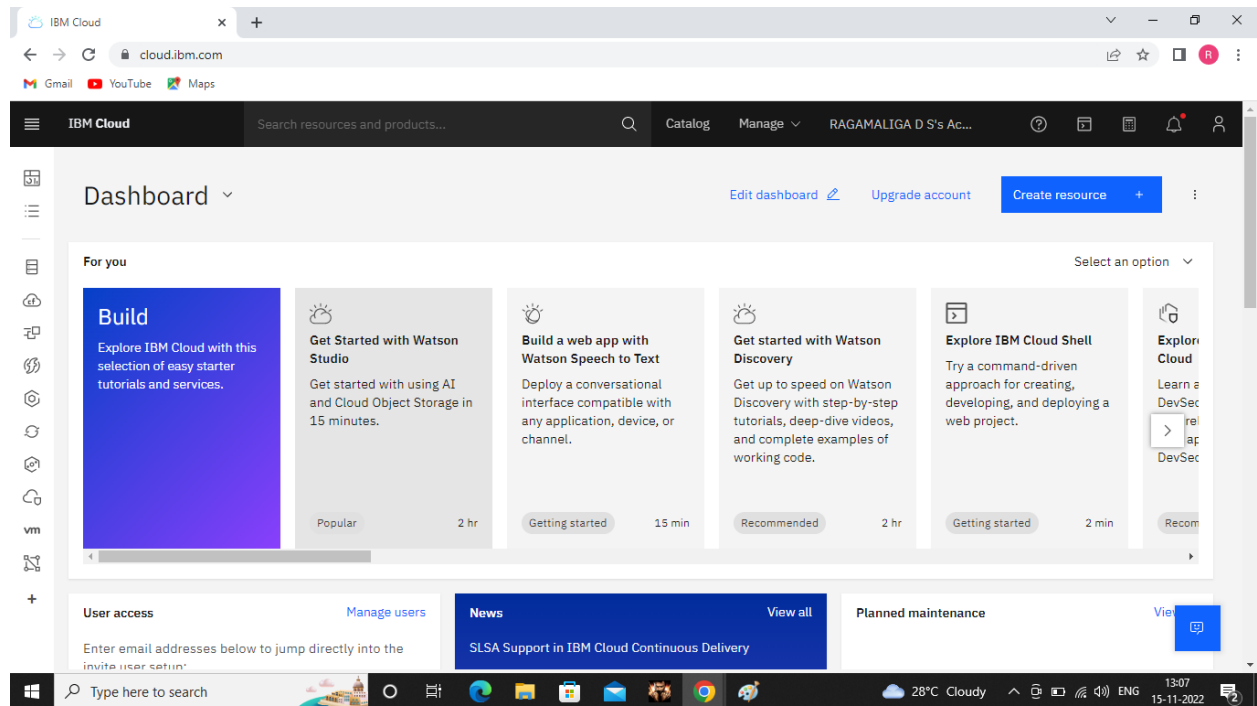
SETTING UP APPLICATION ENVIRONMENT

CREATE FLASK PROJECT





CREATE IBM CLOUD ACCOUNT



INSTALL IBM CLOUD CLI

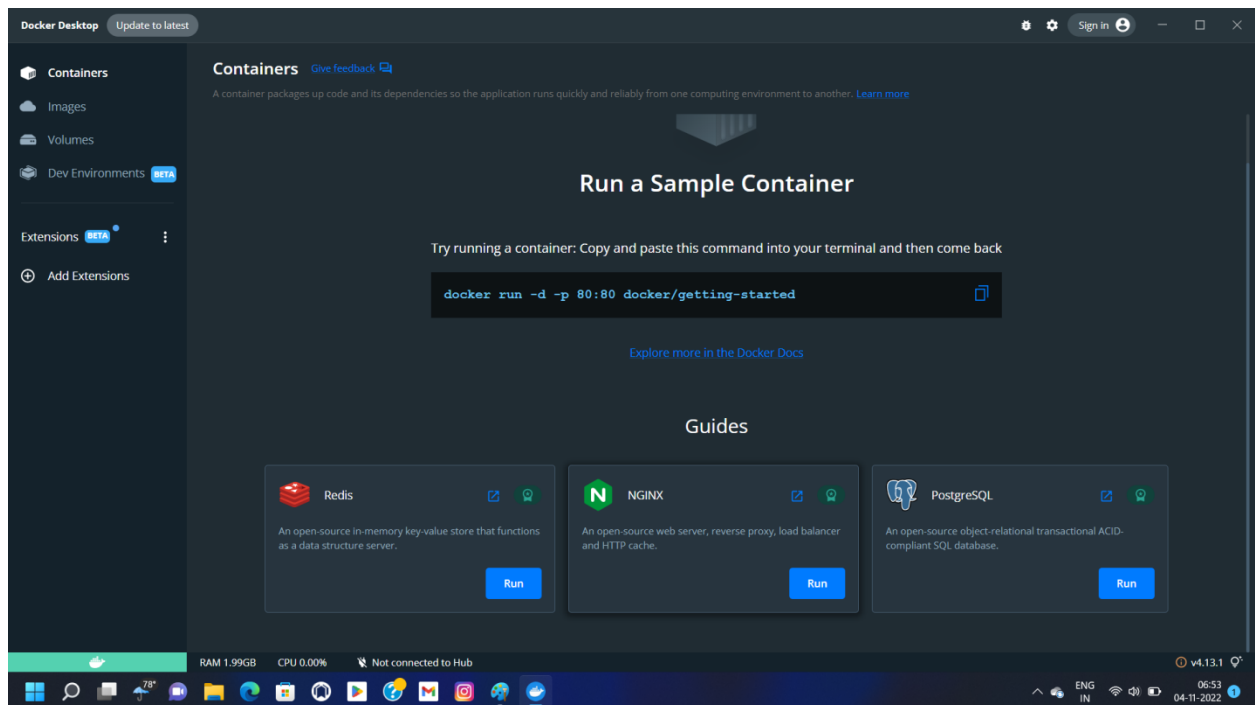
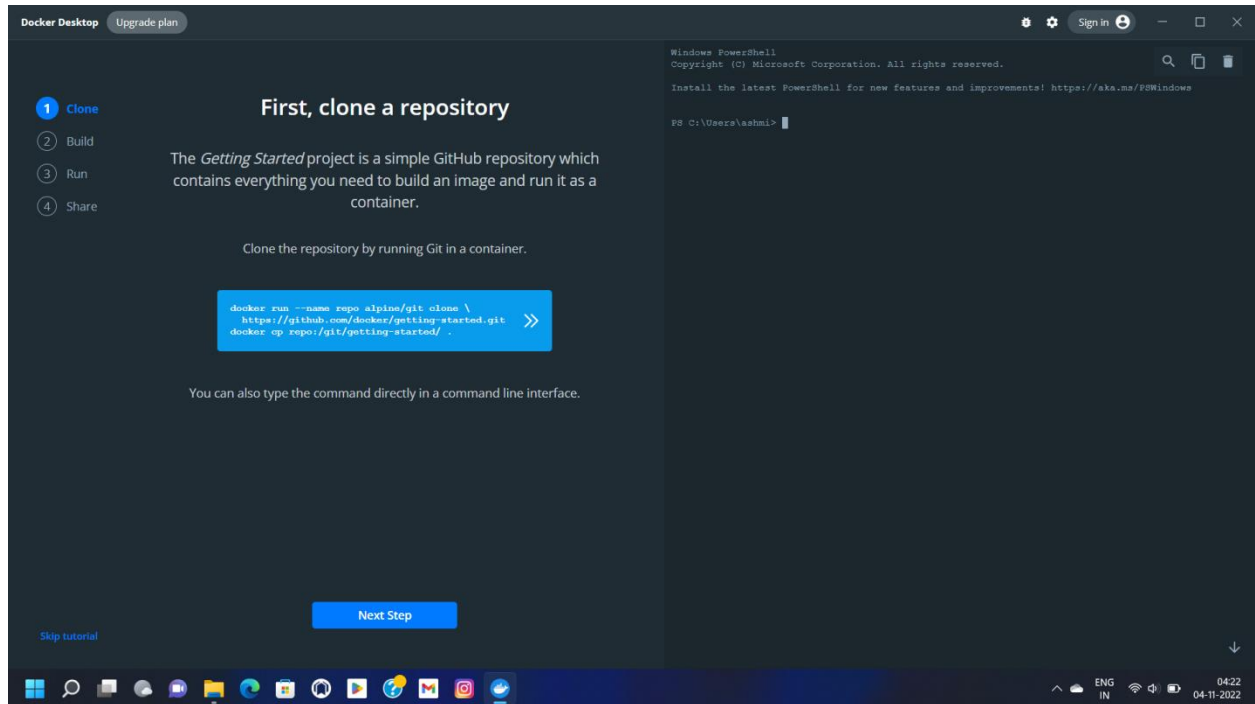
```
MSI70ed9 - Notepad
File Edit View
Property(C): NewProperty1 = 0
Property(C): NewProperty7 = 0
Property(C): NewProperty6 = 0
Property(C): NewProperty9 = 0
Property(C): NewProperty8 = 0
Property(C): NewProperty10 = 0
Property(C): MSIFASTINSTALL = 1
Property(C): NewProperty13 = 0
Property(C): NewProperty12 = 0
Property(C): NewProperty11 = 0
Property(C): SETUPEXENAME = IBM_Cloud_CLI_2.12.1_amd64.exe
Property(C): MsiLogFileLocation = C:\Users\ashmi\AppData\Local\Temp\MSI70ed9.LOG
Property(C): WindowsBuild = 9600
Property(C): VersionNT64 = 603
Property(C): VersionMsi = 5.00
Property(C): VersionDatabase = 200
Property(C): PRODUCTLANGUAGE = 1033
Property(C): MsiSystemRebootPending = 1
Property(C): CLIENTPROCESSID = 18352
Property(C): CLIENTTITLELEVEL = 0
Property(C): CURRENTDIRECTORY = C:\WINDOWS\system32
Property(C): SETUPEXEDIR = C:\Users\ashmi\Downloads
Property(C): ProductToBeRegistered = 1
Property(C): ProductState = 5
Property(C): PackageCode = {D896F836-9CF5-4C69-B76B-71C68D86FD09}
Property(C): COMPANYNAME = HP
Property(C): USERNAME = ashmiasif2002@gmail.com
Property(C): ISSHOWMSILOG = 1
=== Logging stopped: 07-11-2022 04:15:30 ===
MSI (c) (80:F0) [04:15:30:191]: Note: 1: 1728
MSI (c) (80:F0) [04:15:30:191]: Product: IBM Cloud Command Line Interface -- Configuration completed successfully.

MSI (c) (80:F0) [04:15:30:197]: Windows Installer reconfigured the product. Product Name: IBM Cloud Command Line Interface. Product Version: 2.12.1. Product Language: 1033. Manufacturer: I

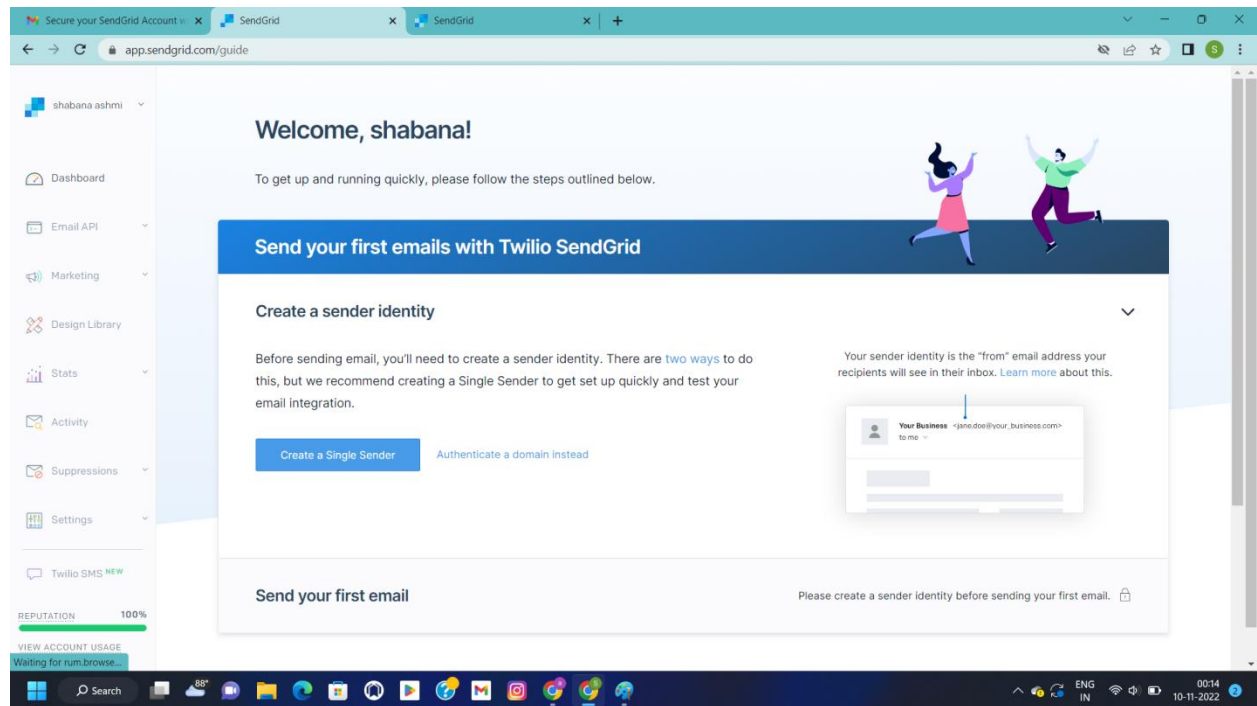
MSI (c) (80:F0) [04:15:30:198]: Grabbed execution mutex.
MSI (c) (80:F0) [04:15:30:198]: Cleaning up uninstalled install packages, if any exist
MSI (c) (80:F0) [04:15:30:200]: MainEngineThread is returning 0
=== Verbose logging stopped: 07-11-2022 04:15:30 ===

Ln 1568, Col 46 100% Windows (CRLF) UTF-16 LE
04:18 07-11-2022
```

DOCKER CLI INSTALATION



CREATE AN ACCOUNT IN SENDGRID



The screenshot shows the SendGrid welcome page for a user named 'shabana ashmi'. The page has a light blue header with the user's name and a sidebar on the left containing navigation links: Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, Settings, and Twilio SMS. The main content area features a 'Welcome, shabana!' message and a 'Send your first emails with Twilio SendGrid' section. This section includes a 'Create a sender identity' card with instructions and a 'Send your first email' card with a warning message. A Windows taskbar is visible at the bottom.

shabana ashmi

Dashboard

Email API

Marketing

Design Library

Stats

Activity

Suppressions

Settings

Twilio SMS **NEW**

REPUTATION 100%

VIEW ACCOUNT USAGE

Waiting for rum.browse...

Welcome, shabana!

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.

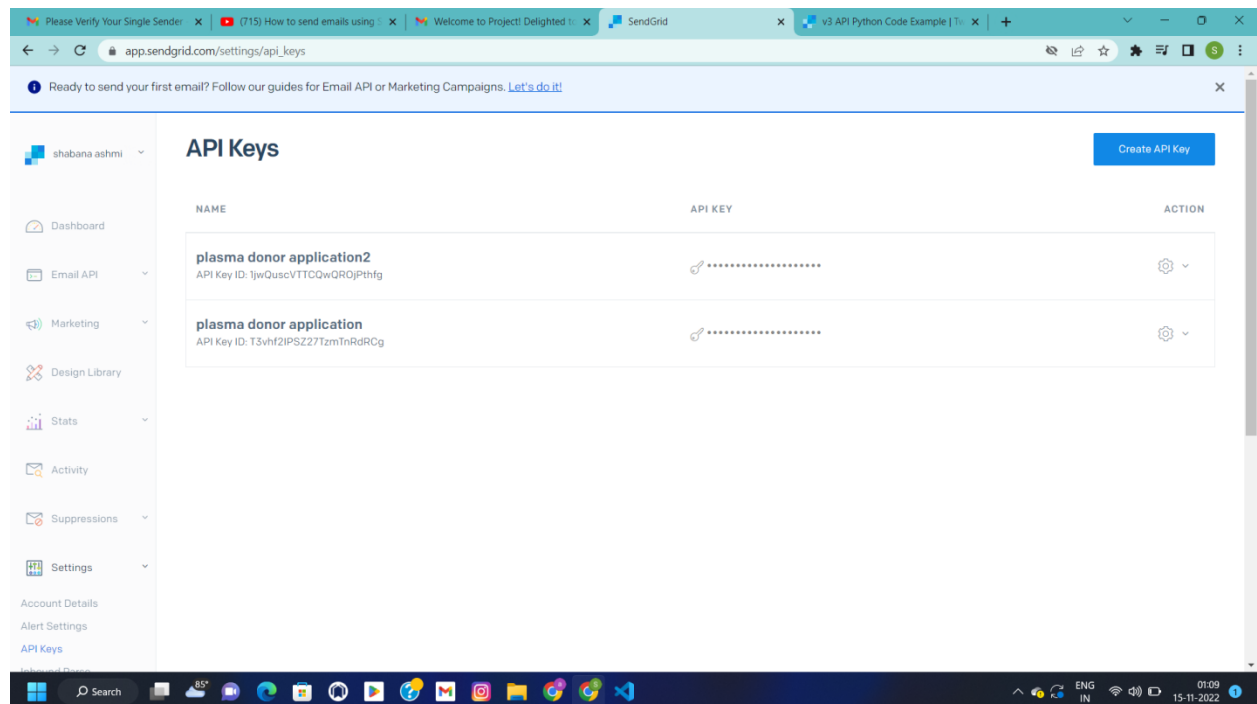
[Create a Single Sender](#) [Authenticate a domain instead](#)

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
to me

Send your first email

Please create a sender identity before sending your first email.



The screenshot shows the SendGrid 'API Keys' page. The page has a light blue header with a notification: 'Ready to send your first email? Follow our guides for Email API or Marketing Campaigns. [Let's do it!](#)'. The sidebar on the left is the same as the previous screenshot. The main content area is titled 'API Keys' and features a 'Create API Key' button. Below the title is a table with two columns: 'NAME' and 'API KEY'. The table contains two entries: 'plasma donor application2' and 'plasma donor application'. Each entry has an 'API Key ID' and a corresponding API key. A Windows taskbar is visible at the bottom.

Please Verify Your Single Sender | (715) How to send emails using | Welcome to Project! Delighted | SendGrid | v3 API Python Code Example |

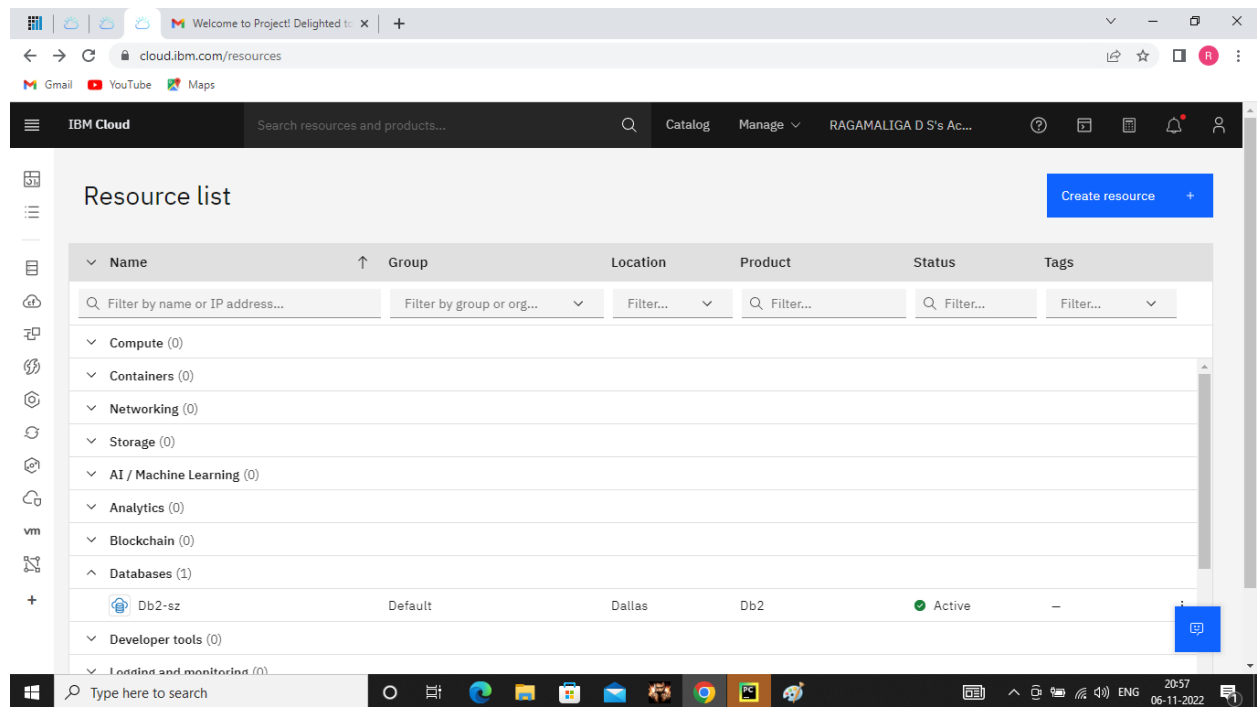
Ready to send your first email? Follow our guides for Email API or Marketing Campaigns. [Let's do it!](#)

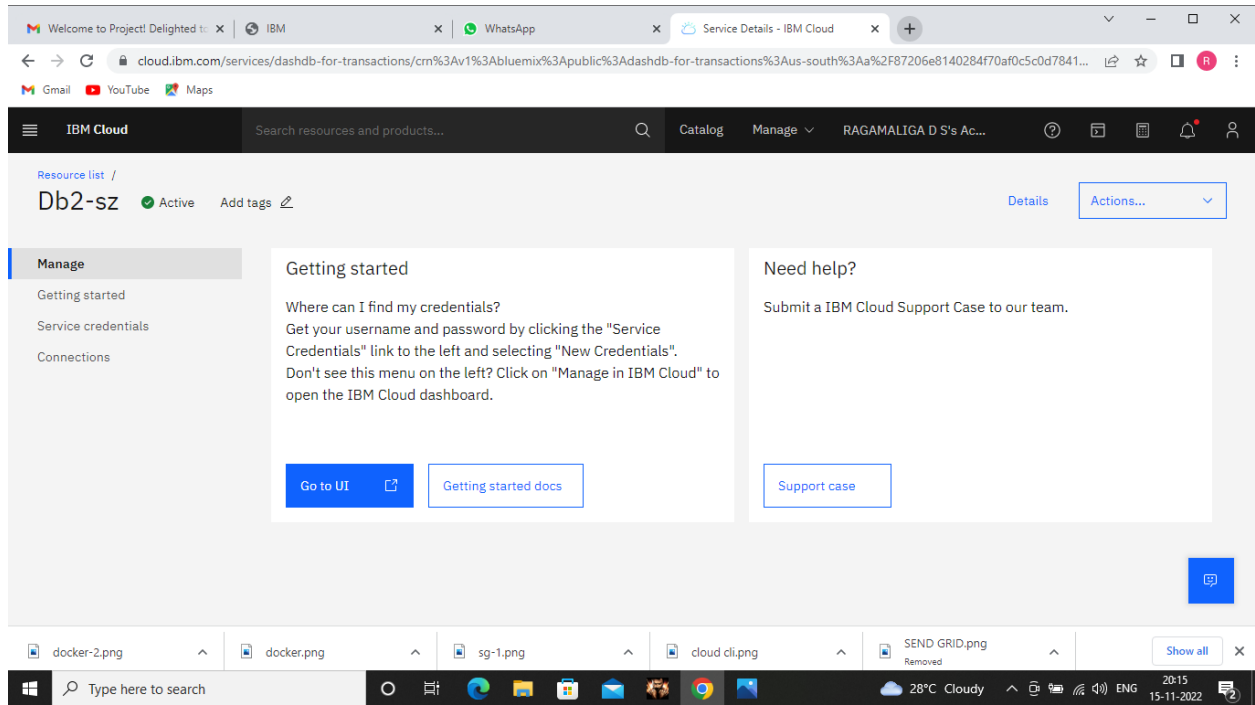
API Keys

[Create API Key](#)

NAME	API KEY	ACTION
plasma donor application2 API Key ID: 1jwQuscVTTQwQROjPthfg	Settings
plasma donor application API Key ID: T3vhf2IPSZ27TzmTnRdRCg	Settings

CREATE UI TO INTERACT WITH APPLICATION





CREATE IBM DB2 CONNECT WITH PYTHON

The screenshot displays the Spyder Python IDE interface. The main editor window shows a Python file named `db app.py` with the following code:

```
1 # -*- coding: utf-8 -*-
2 """
3 Created on Sun Nov 13 12:43:43 2022
4
5 @author: hp
6 """
7
8 from flask import Flask,
9
10 render_template, request, redirect, url_for, session import ibm_db import re
11
12 app = Flask(__name__)
13
14 app.secret_key = 'a'
15
16 conn =
17
18 ibm_db.connect("DATABASE=b1udb;HOSTNAME=9938aec0-8105-433e-8bf9-0fb7e483086.clogj3sd0gtu0lqde00.databases.appd
19
20 @app.route('/')
21
22 def homer():
23
24 return render_template('home.html')
25
26 @app.route('/login', methods = ['GET', 'POST'])
27 def login():
28     global_userid
29     msg = "
30     if request.method == 'POST':
31
32     username =
33
34     request.form['username']
35
36     password =
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
```

The right-hand pane shows the IPython console with the following output:

```
Python 2.7.14 [Anaconda, Inc.] (default, Oct 15 2017, 06:26:11)
[MSC v.1500 32 bit (Intel)]
Type "copyright", "credits" or "license" for more information.

IPython 5.4.1 -- An enhanced Interactive Python.
? -> Introduction and overview of IPython's features.
%quickref -> Quick reference.
help -> Python's own help system.
object? -> Details about 'object', use 'object??' for extra
details.

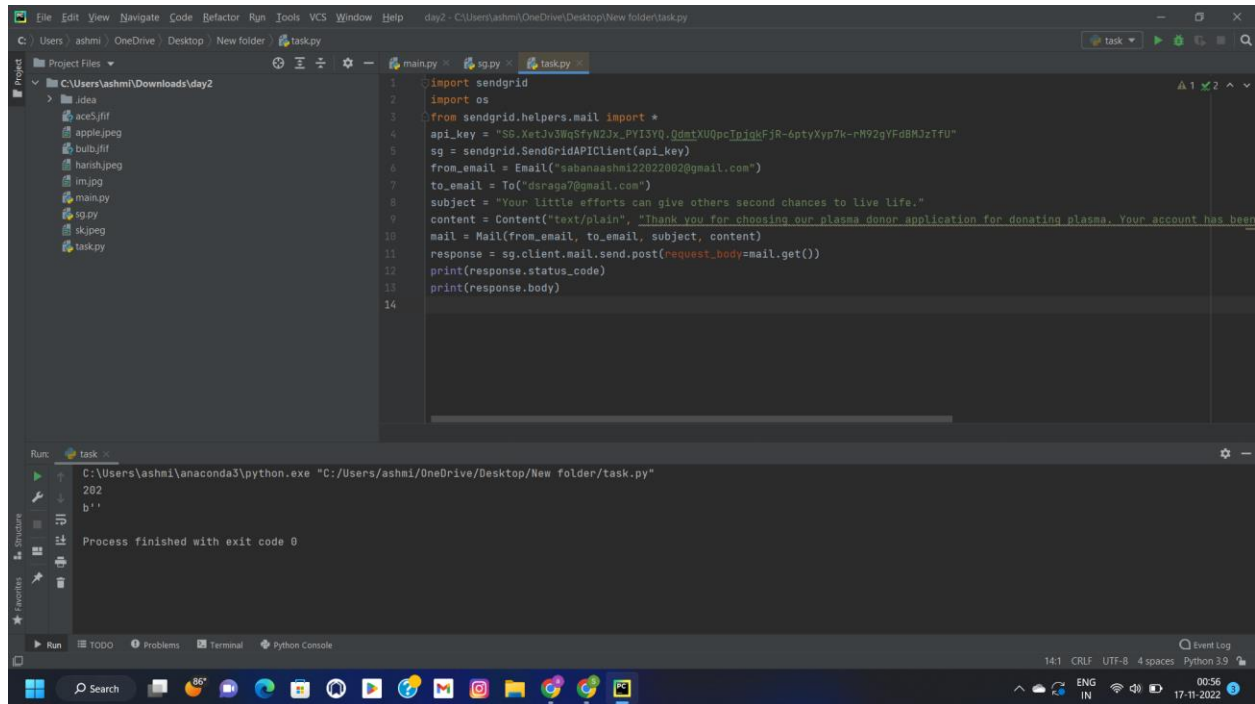
In [1]:

In [1]:
```

The bottom status bar indicates the file permissions are `RW`, the end-of-lines are `CRLF`, the encoding is `UTF-8`, and the current line and column are `Line: 18 Column: 232`. The memory usage is `80 %`.

INTEGRATING SENDGRID SERVICE

SENDGRID INTEGRATION WITH PYTHON CODE



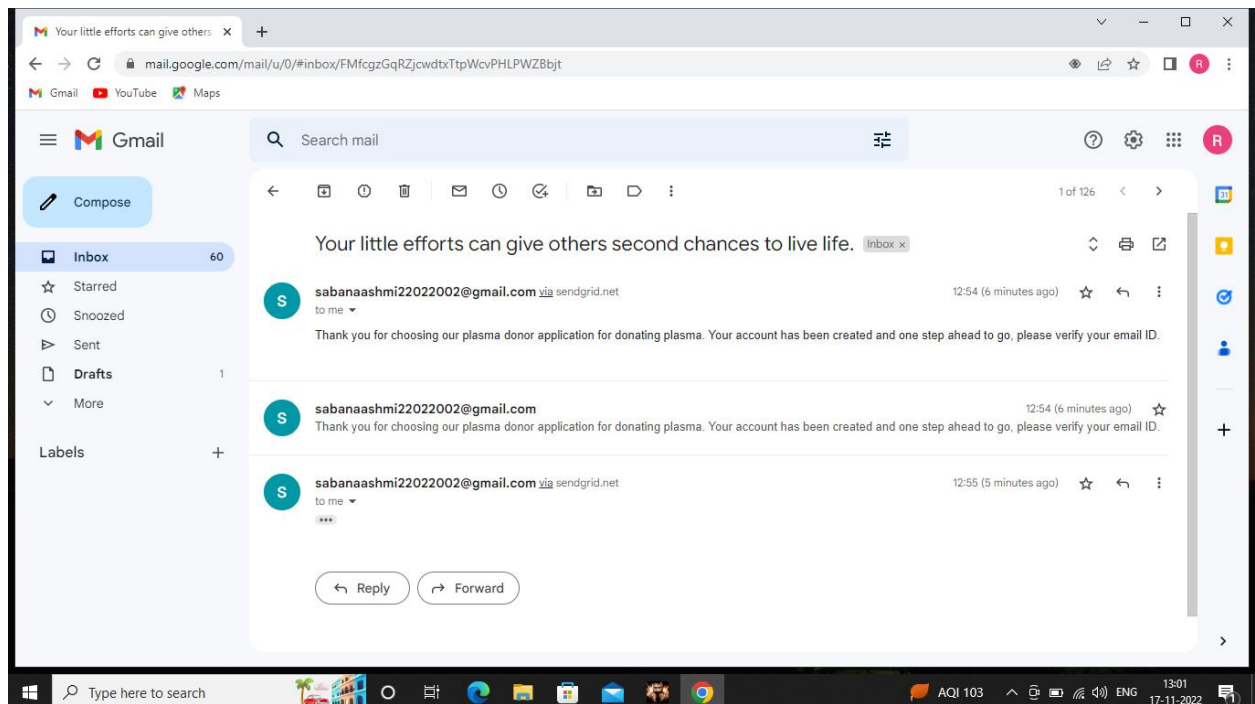
```
1 import sendgrid
2 import os
3 from sendgrid.helpers.mail import *
4 api_key = "SG.xetJv3MqSfyN23x_PVI3YQ.0detXUQpcTpJq&FJR-6ptyXyp7K-rM92gYFd8MJzTfU"
5 sg = sendgrid.SendGridAPIClient(api_key)
6 from_email = Email("sabanaashmi22022002@gmail.com")
7 to_email = To("dsraga7@gmail.com")
8 subject = "Your little efforts can give others second chances to live life."
9 content = Content("text/plain", "Thank you for choosing our plasma donor application for donating plasma. Your account has been created and one step ahead to go, please verify your email ID.")
10 mail = Mail(from_email, to_email, subject, content)
11 response = sg.client.mail.send.post(request_body=mail.get())
12 print(response.status_code)
13 print(response.body)
14
```

Run: task

C:\Users\ashmi\anaconda3\python.exe "C:/Users/ashmi/OneDrive/Desktop/New folder/task.py"

202
b''

Process finished with exit code 0



DEPLOYMENT OF APP IN IBM CLOUD

CONTAINERIZE THE APP

UPLOAD IMAGE IN IBM CONTAINER REGISTRY

DEPLOY IN KUBERNETES CLUSTER

The screenshot displays the IBM Db2 on Cloud web interface. The browser address bar shows the URL: `bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F87206e8140284f70af0c5...`. The interface includes a top navigation bar with tabs for 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is active, showing a search bar and a table list. The table list contains one entry: 'DONOR' under the schema 'MWT73641'. The 'Table definition' panel on the right shows the structure of the 'DONOR' table with the following columns:

Name	Data type	Nullable	Length	Scale
BLOOD GROUP	VARCHAR	Y	32	0
ADDRESS	VARCHAR	Y	32	0
NAME	VARCHAR	Y	32	0
EMAIL	VARCHAR	Y	32	0
PHONE NO.	VARCHAR	Y	32	0

The interface also includes a 'View data' button and a status bar at the bottom showing the time as 20:03 on 06-11-2022.

IBM Db2 on Cloud

Data objects

Filter objects

SQL

Tables

Views

MQTs

Aliases

Nicknames

*Untitled - 1

```
1 insert into donor values('B POSITIVE','44 1ST STREET CHENNAI','AGAR','AGAR7@gmail.com','9876543210');
2 insert into donor values('O NEGATIVE','11 KK NAGAR CHENNAI','SHARA','shara@gmail.com','7894561230');
3 insert into donor values('AB POSITIVE','8 MEEN STREET CHENNAI','BUU','buu1@gmail.com','9360227100');
4 insert into donor values('O POSITIVE','6 NEHRU STREET VELACHERI','ABBI','abbi@gmail.com','9043906218');
5 insert into donor values('A POSITIVE','2 AB NAGAR CHENNAI','SWARSHA','swarsha@gmail.com','963')
```

History

Results

Script	Date	Status	Runtime
Untitled - 1	Nov 6, 2022 8:02:49 PM	5	0.023 s
insert into donor values('B POSITIVE','44 1ST STREET CHENNAI','AGAR','AGAR7@gmail.com','9876543210');			0.006 s
insert into donor values('O NEGATIVE','11 KK NAGAR CHENNAI','SHARA','shara@gmail.com','7894561230');			0.005 s
insert into donor values('AB POSITIVE','8 MEEN STREET CHENNAI','BUU','buu1@gmail.com','9360227100');			0.004 s
insert into donor values('O POSITIVE','6 NEHRU STREET VELACHERI','ABBI','abbi@gmail.com','9043906218');			0.004 s
insert into donor values('A POSITIVE','2 AB NAGAR CHENNAI','SWARSHA','swarsha@gmail.com','963');			0.004 s

Type here to search

20:02 06-11-2022

IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

Find schemas or tables

Tables

Name	Schema	Properties
DONOR	MWT73641	...
REGISTER	MWT73641	...

Total: 2, selected: 2

Table definition

REGISTER

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	Y	32	0
EMAIL	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

View data

28°C 14:16 13-11-2022

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

MWT73641.REGISTER

Back

Export to CSV

USERNAME	EMAIL	PASSWORD
ABS	abs@gmail.com	AGA13
ABU	azbuu@gmail.com	BUU
oreo	oreo@gmail.com	SHARA

Type here to search

28°C 14:21 13-11-2022

Plasma Donor App

Home Register

Enter UserName

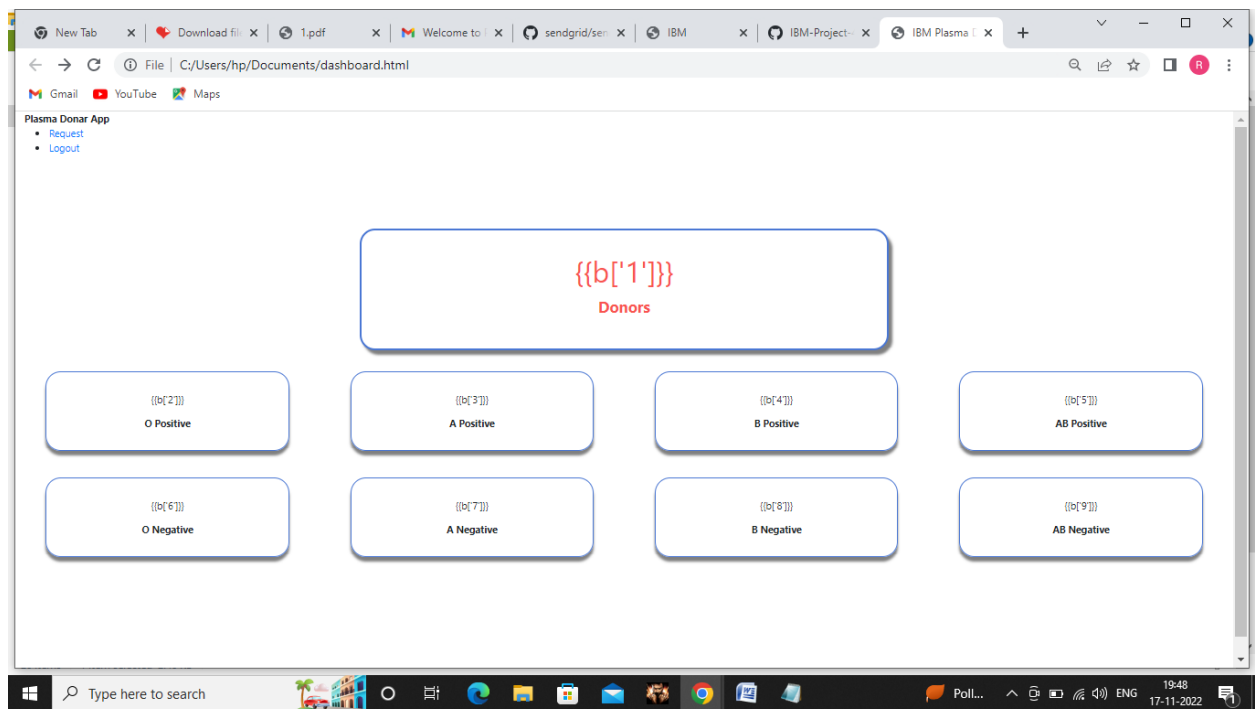
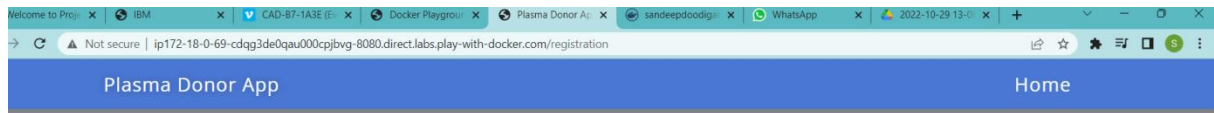
Enter Password

Login

Search

78°

ENG IN 09:02 16-11-2022



Browser tabs: Welcome to..., Accessing IB..., IBM..., Resource list..., CAD-B7-1A3..., WhatsApp..., IBM-Project..., IBM Db2 on..., cloud.ibm.com/resources

Search: cloud.ibm.com/resources

IBM Cloud | Search resources and products... | Catalog | Manage | RAGAMALIGA D S's Ac...

Resource list

Create resource +

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter... Filter...					
Compute (0+) (Error retrieving data)					
Containers (0+) (Error retrieving data)					
Networking (0+) (Error retrieving data)					
Storage (1)					
Cloud Object Storage-ga	Default	Global	Cloud Object Storage	Active	-
AI / Machine Learning ... (Error retrieving d...					
Analytics (0+) (Error retrieving data)					
Blockchain (0+) (Error retrieving data)					
Databases (1+) (Error retrieving data)					
Developer tools (0+) (Error retrieving data)					
Logging and monitoring ... (Error retrieving ...)					

Windows taskbar: Type here to search | 28°C | 14:37 13-11-2022

Browser tabs: Download file | iLovePDF | 1 (1).pdf | Resource list - IBM Cloud | cloud.ibm.com/resources

Search: cloud.ibm.com/resources

IBM Cloud | Search resources and products... | Catalog | Manage | RAGAMALIGA D S's Ac...

Resource list

Create resource +

Name	Group	Location	Product	Status	Tags
Filter by name or IP address... Filter by group or org... Filter... Filter... Filter... Filter...					
Compute (0)					
Containers (1)					
mycluster-free	Default	Frankfurt	Kubernetes Service	Deploying	-
Networking (0)					
Storage (1+)					
AI / Machine Learning (1+)					
Analytics (0)					
Blockchain (0)					
Databases (1+)					
Developer tools (0)					

Windows taskbar: Type here to search | 27°C Partly cloudy | 16:11 16-11-2022