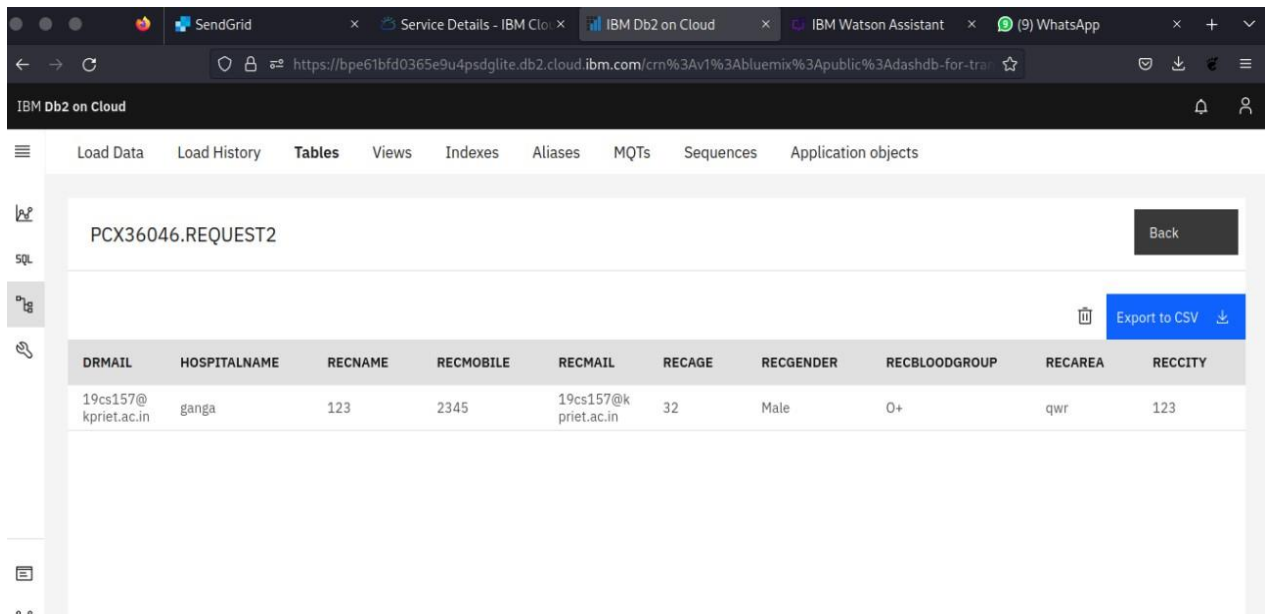


# PROJECT DEVELOPMENT PHASE

## SPRINT – 4

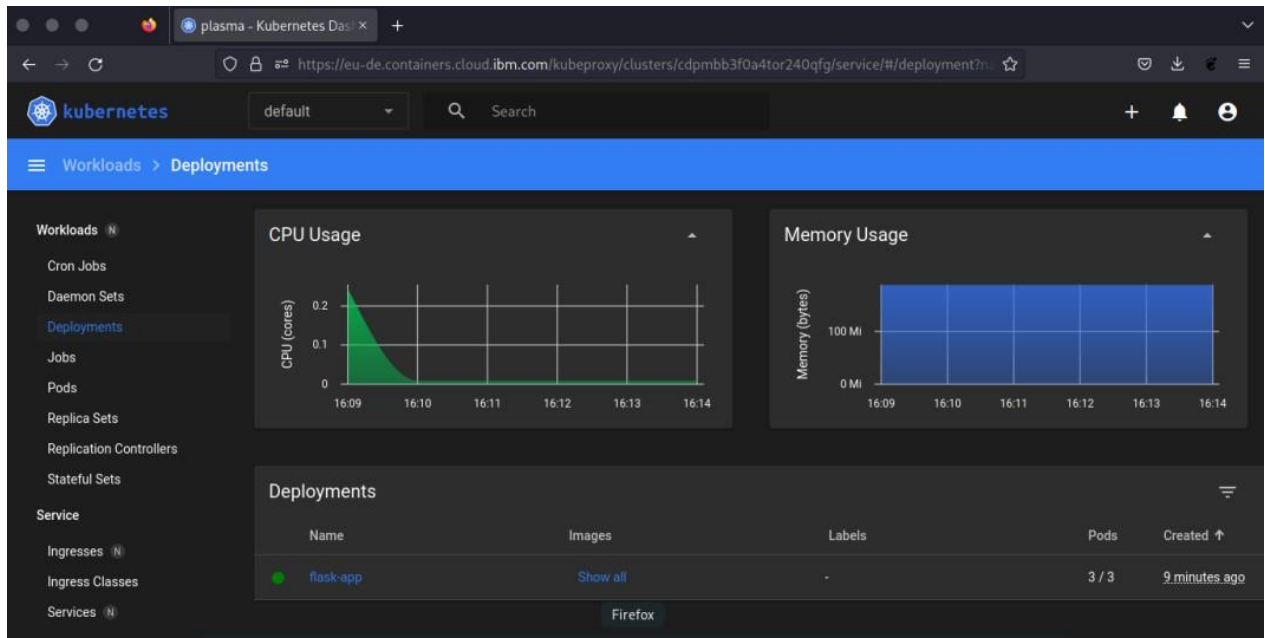
Date	14 November 2022
Team ID	PNT2022TMID36609
Project Name	Plasma Donor Application



The screenshot shows the IBM Db2 on Cloud web interface. The browser tabs include SendGrid, Service Details - IBM Cloud, IBM Db2 on Cloud, IBM Watson Assistant, and WhatsApp. The address bar shows a URL starting with https://bpe61bfd0365e9u4psdglite.db2.cloud.ibm.com/. The interface displays a table named PCX36046.REQUEST2. The table has 10 columns: DRMAIL, HOSPITALNAME, RECNAME, RECMOBILE, RECMAIL, RECAGE, RECENDER, RECBLOODGROUP, RECAREA, and RECCITY. There is one data row with the following values: 19cs157@kpriet.ac.in, ganga, 123, 2345, 19cs157@kpriet.ac.in, 32, Male, O+, qwr, and 123. The interface also includes a 'Back' button and an 'Export to CSV' button.

DRMAIL	HOSPITALNAME	RECNAME	RECMOBILE	RECMAIL	RECAGE	RECENDER	RECBLOODGROUP	RECAREA	RECCITY
19cs157@kpriet.ac.in	ganga	123	2345	19cs157@kpriet.ac.in	32	Male	O+	qwr	123

## Deploy in Kubernetes:



The screenshot shows the Plasma Donor Application website. The header is purple with the text 'Plasma Donor Application' and navigation links for 'Home', 'Register', and 'Login'. Below the header is a large illustration of a person in a hospital bed receiving plasma from a donor. The text below the illustration reads: 'A DROP FOR YOU! AN OCEAN FOR SOMEONE ELSE. DONATE PLASMA SAVE SOMEONES LIFE...'. A 'Donate Plasma' button is located below the text. At the bottom of the page, there is a 'Know more about Plasma' link and a chat icon.

Plasma Donor Application [Home](#) [Register](#) [Login](#)

### Register as a user

User Name

Your Email

Phone

Your Password

[Reset](#) [Register](#)

[Already a user? Login](#)

## Coding:

```
dashboard-adminuser.yaml - Sprint-4 - Visual Studio Code
File Edit Selection View Go Run Terminal Help

EXPLORER
├── SPRINT-4
│   ├── __pycache__
│   │   └── app.cpython-39.pyc
│   └── kubernetes
│       ├── ! dashboard-adminuser.yaml
│       ├── ! flask_deployment.yaml
│       ├── ! flask_ingress.yaml
│       ├── ! flask_service.yaml
│       └── ! ibm_deployment.yaml
├── static
│   ├── # home.css
│   └── # style.css
├── templates
│   ├── admin_login.html
│   ├── base.html
│   ├── donor.html
│   ├── home.html
│   ├── login.html
│   ├── register.html
│   ├── request.html
│   ├── signin.html
│   ├── success.html
│   └── user_profile.html
├── app.py
├── DigiCertGlobalRootCA.crt
├── Dockerfile
└── requirements.txt

kubernetes > ! dashboard-adminuser.yaml
1  apiVersion: v1
2  kind: ServiceAccount
3  metadata:
4    name: admin-user
5    namespace: sriramparamasivam
6  ---
7  apiVersion: v1
8  kind: Secret
9  metadata:
10   name: admin-user-token
11   namespace: sriramparamasivam
12   annotations:
13     kubernetes.io/service-account.name: admin-user
14   type: kubernetes.io/service-account-token
15  ---
16  apiVersion: rbac.authorization.k8s.io/v1
17  kind: ClusterRoleBinding
18  metadata:
19   name: admin-user
20   roleRef:
21     apiGroup: rbac.authorization.k8s.io
22     kind: ClusterRole
23     name: cluster-admin
24   subjects:
25   - kind: ServiceAccount
26     name: admin-user
27     namespace: sriramparamasivam
28
```

ibm\_deployment.yaml - Sprint-4 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

- SPRINT-4
  - \_\_pycache\_\_
    - app.cpython-39.pyc
  - kubernetes
    - ! dashboard-adminuser.yaml
    - ! flask\_deployment.yaml
    - ! flask\_ingress.yaml
    - ! flask\_service.yaml
    - ! ibm\_deployment.yaml
  - static
    - # home.css
    - # style.css
  - templates
    - admin\_login.html
    - base.html
    - donor.html
    - home.html
    - login.html
    - register.html
    - request.html
    - signin.html
    - success.html
    - user\_profile.html
  - app.py
  - DigiCertGlobalRootCA.crt

! ibm\_deployment.yaml X

```
kubernetes > ! ibm_deployment.yaml
1  apiVersion: apps/v1
2  kind: Deployment
3  metadata:
4    name: flask-app
5
6  spec:
7    replicas: 3
8    selector:
9      matchLabels:
10       app: flask-app
11  template:
12    metadata:
13      labels:
14       app: flask-app
15
16    spec:
17      containers:
18        - name: repo2
19          image: docker.io/sriramparasivam/plasmadonor
20          ports:
21            - containerPort: 5000
22            protocol: TCP
23
```

flask\_ingress.yaml - Sprint-4 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

EXPLORER

- SPRINT-4
  - \_\_pycache\_\_
    - app.cpython-39.pyc
  - kubernetes
    - ! dashboard-adminuser.yaml
    - ! flask\_deployment.yaml
    - ! flask\_ingress.yaml
    - ! flask\_service.yaml
    - ! ibm\_deployment.yaml
  - static
    - # home.css
    - # style.css
  - templates
    - admin\_login.html
    - base.html
    - donor.html
    - home.html
    - login.html
    - register.html
    - request.html
    - signin.html
    - success.html
    - user\_profile.html
  - app.py
  - DigiCertGlobalRootCA.crt

! flask\_ingress.yaml X

```
kubernetes > ! flask_ingress.yaml
1  apiVersion: networking.k8s.io/v1
2  kind: Ingress
3  metadata:
4    name: flask-app-ingress
5    annotations:
6      kubernetes.io/ingress.class: nginx
7      nginx.ingress.kubernetes.io/ssl-redirect: "false"
8
9  spec:
10    # ingressClassName: nginx
11    rules:
12      - http:
13          paths:
14            - backend:
15                service:
16                  name: flask-app-service
17                  port:
18                    number: 5000
19            path: /
20            pathType: Prefix
```

