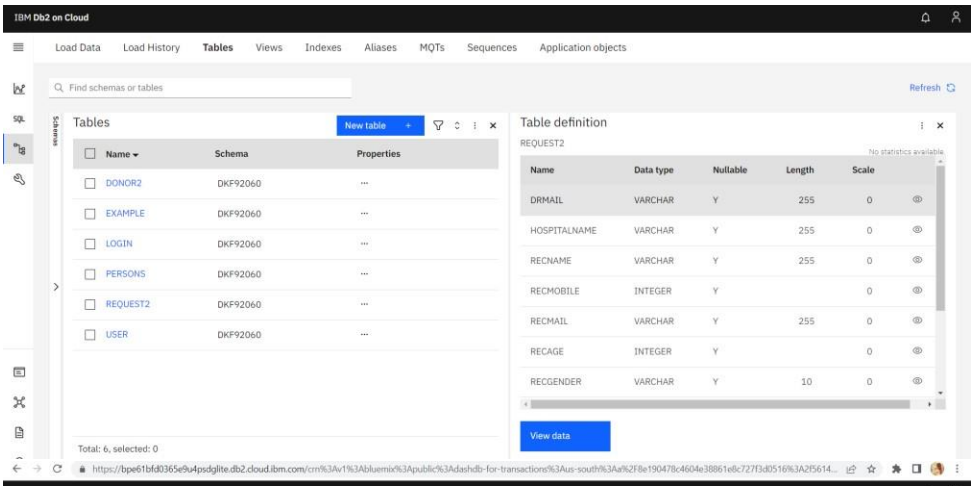
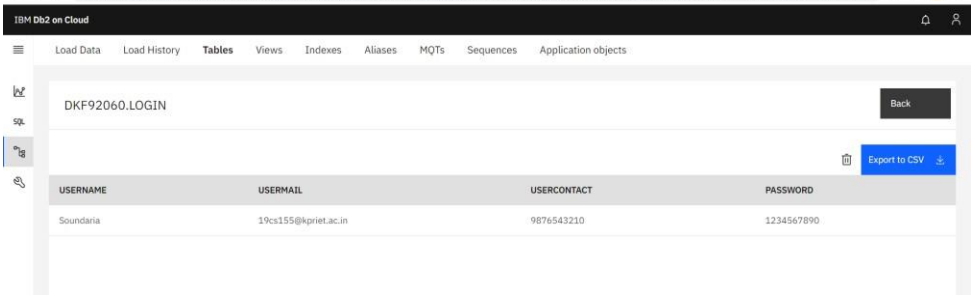
PROJECT DEVELOPMENT PHASE

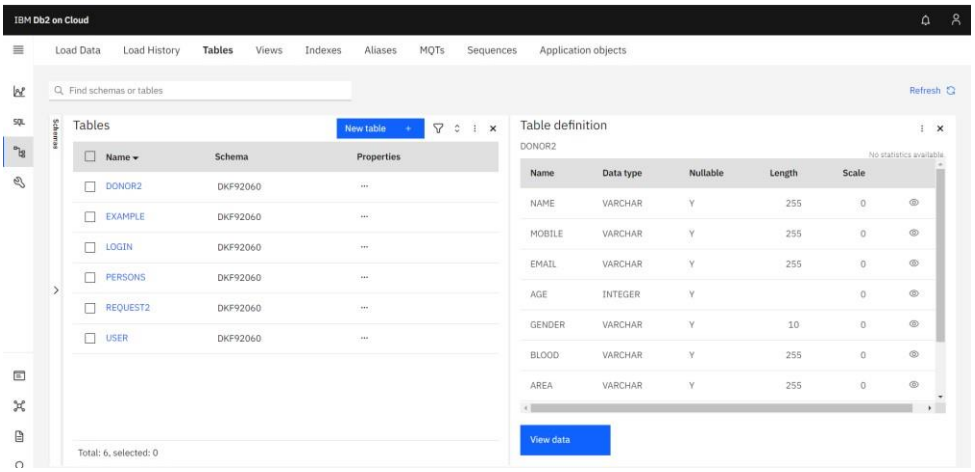
SPRINT – 4

Date	13th November 2022
Team Id	PNT2022TMID14112
Project Name	Plasma Donor Application

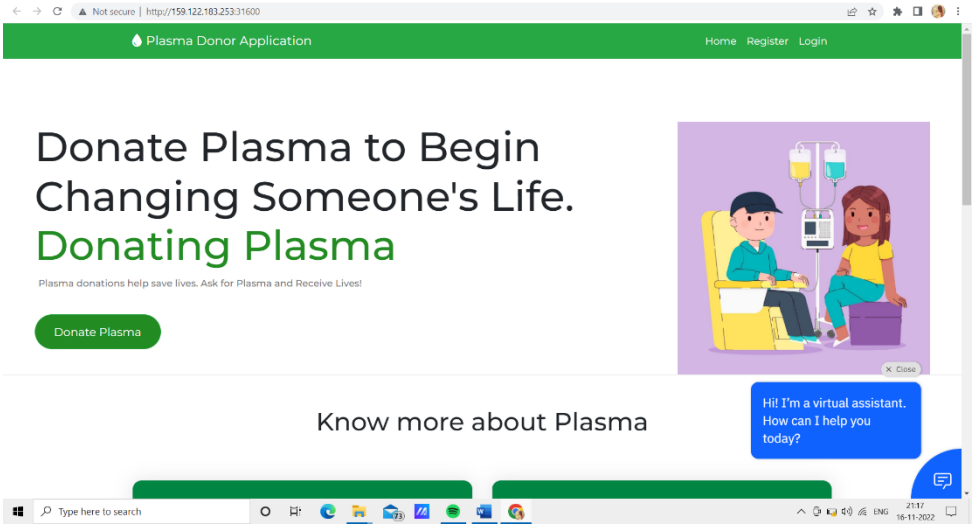
Maintaining the Database

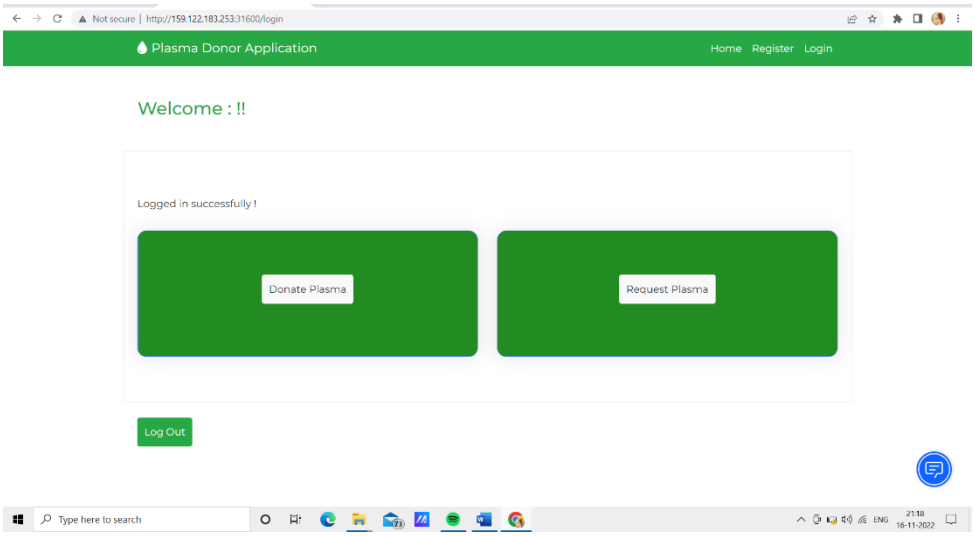


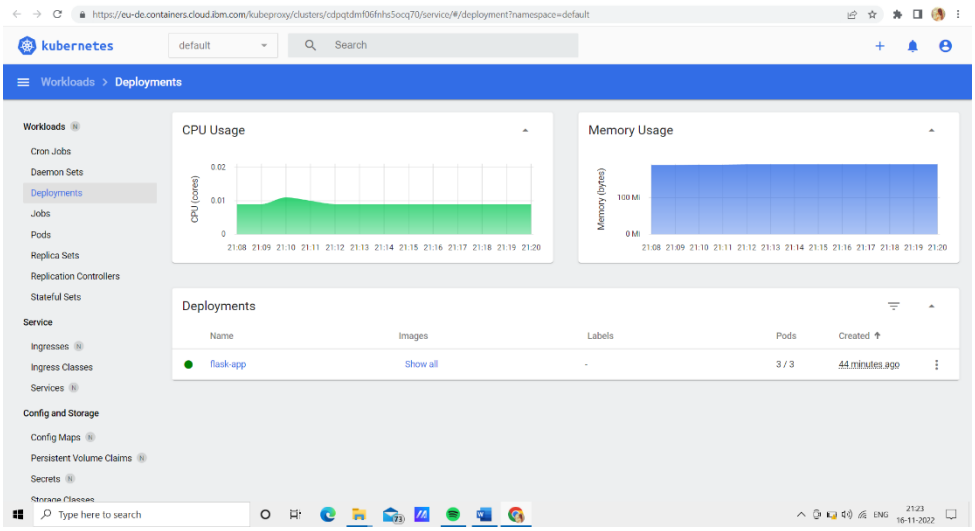




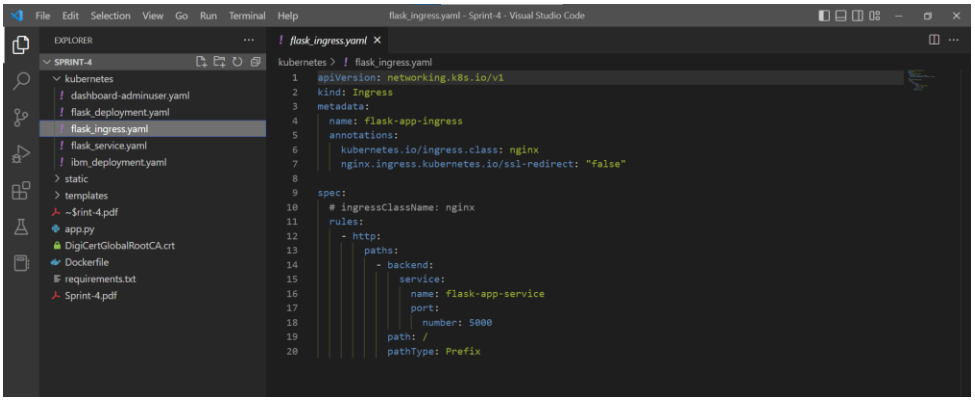
Deploy in Kubernetes

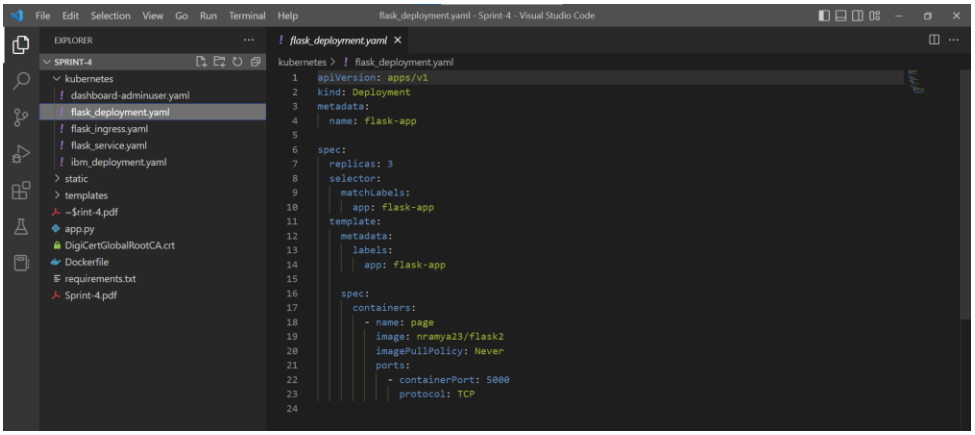


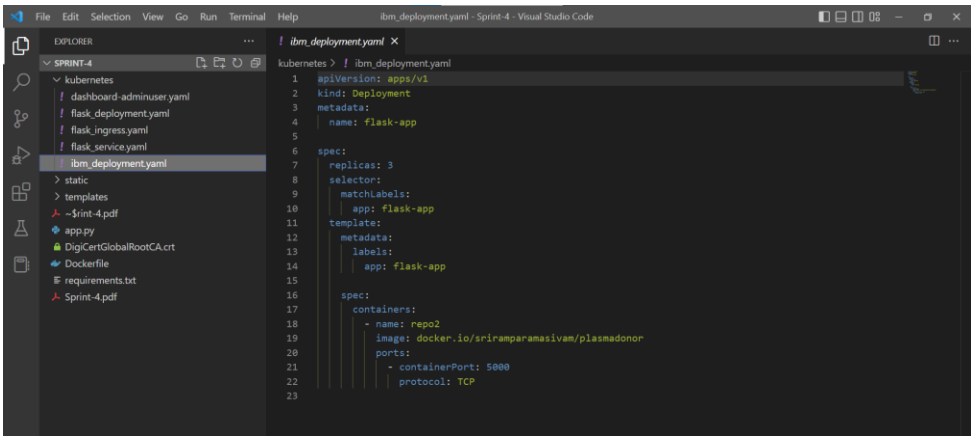

Not secure | http://159.122.183.253:31600/login
Plasma Donor Application
Home Register Login
Welcome : !!
Logged in successfully !
Donate Plasma
Request Plasma
Log Out
Type here to search
ENG
21:18
16-11-2022

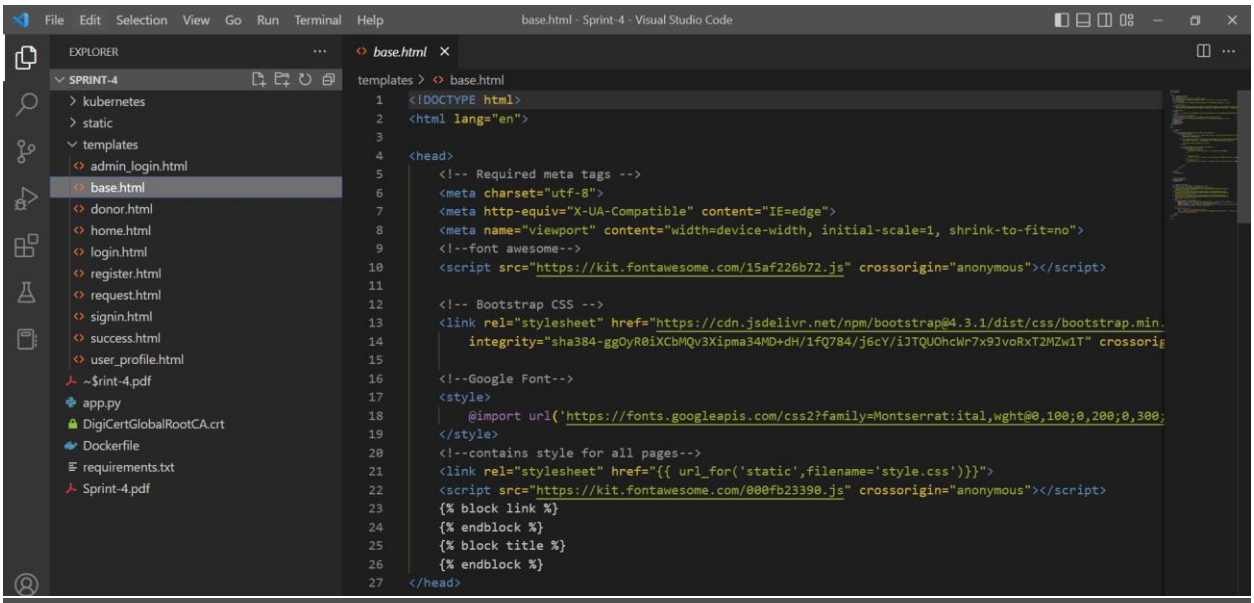

https://eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdpqtdmf06fnhs5ocq70/service/#/deployment?namespace=default
kubernetes
default
Search
Workloads > Deployments
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
CPU Usage
CPU (cores)
Memory Usage
Memory (bytes)
Deployments
Name
Images
Labels
Pods
Created
flask-app
Show all
3 / 3
44 minutes ago
Type here to search
ENG
21:23
16-11-2022

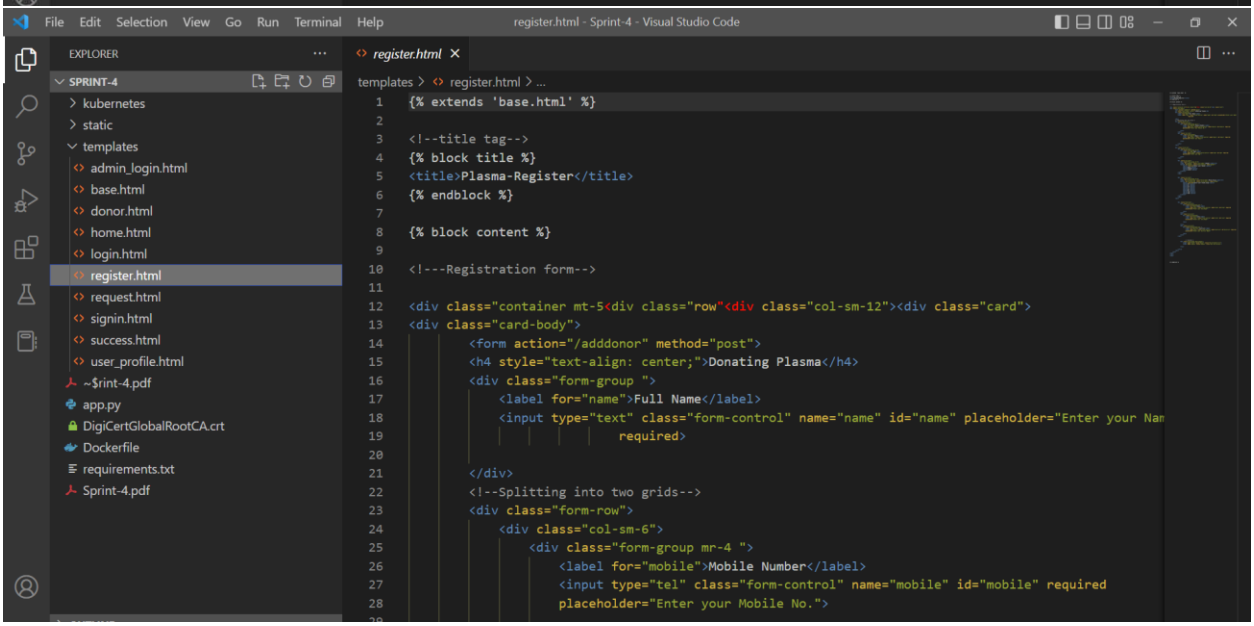
Code


File Edit Selection View Go Run Terminal Help
flask_ingress.yaml - Sprint-4 - Visual Studio Code
EXPLORER
SPRINT-4
kubernetes
dashboard-adminuser.yaml
flask_deployment.yaml
flask_ingress.yaml
flask_service.yaml
ibm_deployment.yaml
static
templates
~$rint-4.pdf
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
flask_ingress.yaml
kubernetes > flask_ingress.yaml
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
name: flask-app-ingress
annotations:
kubernetes.io/ingress.class: nginx
nginx.ingress.kubernetes.io/ssl-redirect: "false"
spec:
ingressClassName: nginx
rules:
- http:
paths:
- backend:
service:
name: flask-app-service
port:
number: 5000
path: /
pathType: Prefix


File Edit Selection View Go Run Terminal Help
flask_deployment.yaml - Sprint-4 - Visual Studio Code
EXPLORER
SPRINT-4
kubernetes
dashboard-adminuser.yaml
flask_deployment.yaml
flask_ingress.yaml
flask_service.yaml
ibm_deployment.yaml
static
templates
~$rint-4.pdf
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
flask_deployment.yaml
kubernetes > flask_deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
name: flask-app
spec:
replicas: 3
selector:
matchLabels:
app: flask-app
template:
metadata:
labels:
app: flask-app
spec:
containers:
- name: page
image: nramya23/flask2
imagePullPolicy: Never
ports:
- containerPort: 5000
protocol: TCP


File Edit Selection View Go Run Terminal Help
ibm_deployment.yaml - Sprint-4 - Visual Studio Code
EXPLORER
SPRINT-4
kubernetes
dashboard-adminuser.yaml
flask_deployment.yaml
flask_ingress.yaml
flask_service.yaml
ibm_deployment.yaml
static
templates
~$rint-4.pdf
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
ibm_deployment.yaml
kubernetes > ibm_deployment.yaml
apiVersion: apps/v1
kind: Deployment
metadata:
name: flask-app
spec:
replicas: 3
selector:
matchLabels:
app: flask-app
template:
metadata:
labels:
app: flask-app
spec:
containers:
- name: repo2
image: docker.io/sriramparamasivam/plasmadonor
ports:
- containerPort: 5000
protocol: TCP


File Edit Selection View Go Run Terminal Help
base.html - Sprint-4 - Visual Studio Code
EXPLORER
SPRINT-4
kubernetes
static
templates
admin_login.html
base.html
donor.html
home.html
login.html
register.html
request.html
signin.html
success.html
user_profile.html
~$rint-4.pdf
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
base.html
templates > base.html
<!DOCTYPE html>
<html lang="en">
<head>
<!-- Required meta tags -->
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<!--font awesome-->
<script src="https://kit.fontawesome.com/15af226b72.js" crossorigin="anonymous"></script>
<!-- Bootstrap CSS -->
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.3.1/dist/css/bootstrap.min.
integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorig
<!--Google Font-->
<style>
@import url('https://fonts.googleapis.com/css2?family=Montserrat:ital,wght@0,100;0,200;0,300;
</style>
<!--contains style for all pages-->
<link rel="stylesheet" href="{{ url_for('static',filename='style.css')}}">
<script src="https://kit.fontawesome.com/000fb23390.js" crossorigin="anonymous"></script>
{% block link %}
{% endblock %}
{% block title %}
{% endblock %}
</head>


File Edit Selection View Go Run Terminal Help
register.html - Sprint-4 - Visual Studio Code
EXPLORER
SPRINT-4
kubernetes
static
templates
admin_login.html
base.html
donor.html
home.html
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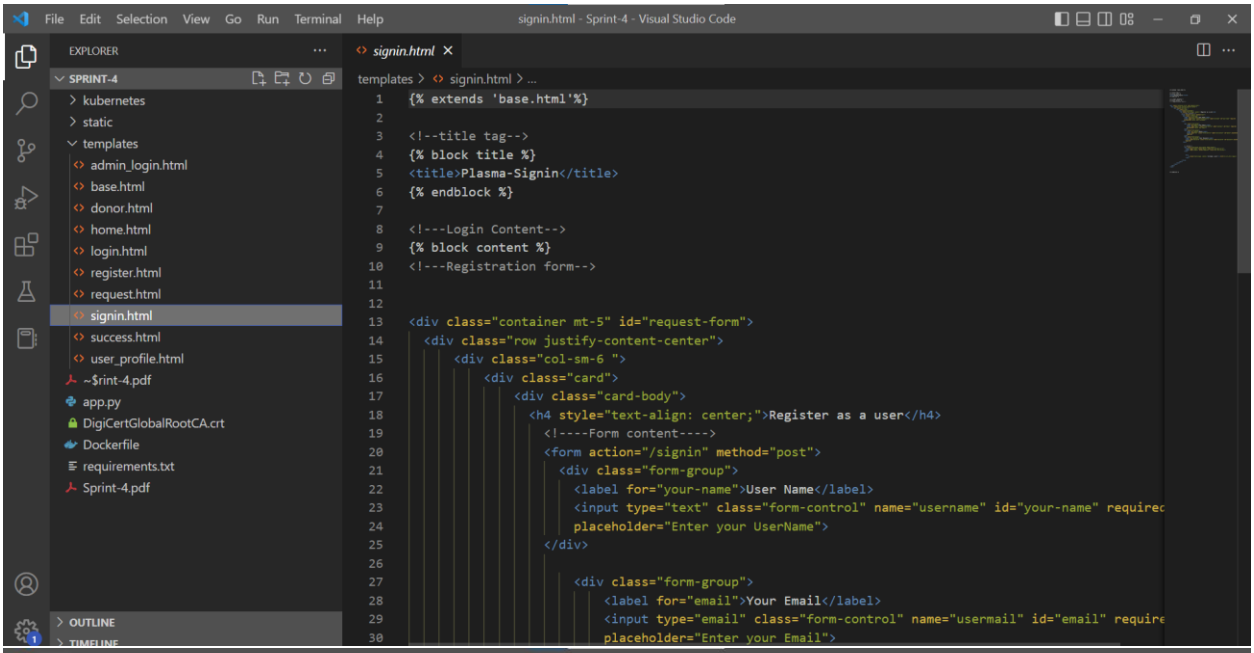
request.html
signin.html
success.html
user_profile.html
~$rint-4.pdf
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
register.html
templates > register.html > ...
{% extends 'base.html' %}
<!--title tag-->
{% block title %}
<title>Plasma-Register</title>
{% endblock %}
{% block content %}
<!---Registration form-->
<div class="container mt-5<div class="row"

<form action="/adddonor" method="post">
<h4 style="text-align: center;">Donating Plasma</h4>

<label for="name">Full Name</label>
<input type="text" class="form-control" name="name" id="name" placeholder="Enter your Nam
required>

<!--Splitting into two grids-->

<label for="mobile">Mobile Number</label>
<input type="tel" class="form-control" name="mobile" id="mobile" required
placeholder="Enter your Mobile No.">


File Edit Selection View Go Run Terminal Help
signin.html - Sprint-4 - Visual Studio Code
EXPLORER
SPRINT-4
kubernetes
static
templates
admin_login.html
base.html
donor.html
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login.html
register.html
request.html
signin.html
success.html
user_profile.html
~$rint-4.pdf
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
OUTLINE
signin.html
templates > signin.html > ...
{% extends 'base.html'%}
<!--title tag-->
{% block title %}
<title>Plasma-Signin</title>
{% endblock %}
<!---Login Content-->
{% block content %}
<!---Registration form-->

<h4 style="text-align: center;">Register as a user</h4>
<!----Form content---->
<form action="/signin" method="post">

<label for="your-name">User Name</label>
<input type="text" class="form-control" name="username" id="your-name" required
placeholder="Enter your UserName">

<label for="email">Your Email</label>
<input type="email" class="form-control" name="usermail" id="email" require
placeholder="Enter your Email">
File Edit Selection View Go Run Terminal Help
app.py - Sprint-4 - Visual Studio Code
EXPLORER
SPRINT-4
kubernetes
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DigiCertGlobalRootCA.crt
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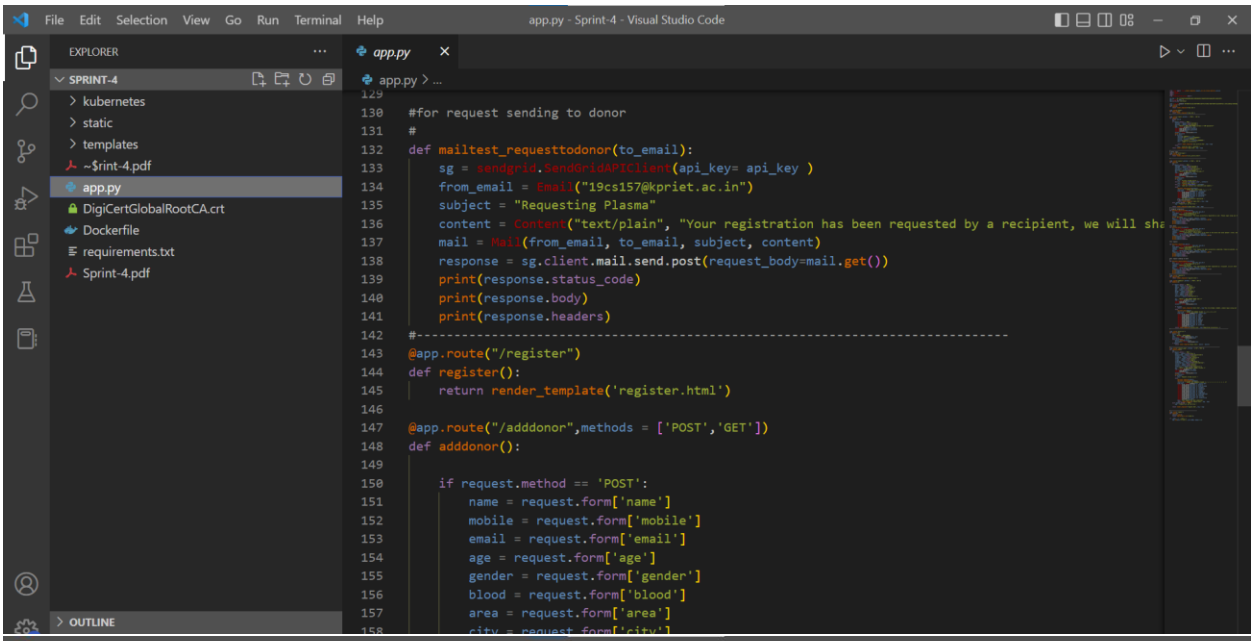
Sprint-4.pdf
OUTLINE
app.py
app.py > ...
from flask import Flask,render_template,request,url_for,flash,redirect,session
import ibm_db
import sendgrid
import re
from sendgrid.helpers.mail import *
api_key = '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'
app = Flask(__name__)
app.secret_key="secretkey"
conn = ibm_db.connect('DATABASE=bludb;HOSTNAME=1bbf73c5-d84a-4bb0-85b9-ab1a4348f4a4.c3n41cmd0nqnrk39u
@app.route("/")
def index():
return render_template('home.html')
@app.route("/home")
def home_page():
return render_template('home.html')
#---
@app.route("/login",methods = ['POST', 'GET'])
def login():
global userid
msg = ''
if request.method == 'POST' :
usermail = request.form['username']
password = request.form['password']
sql = "SELECT * FROM LOGIN WHERE usermail =? AND password=?"
stmt = ibm_db.prepare(conn, sql)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app.py - Sprint-4 - Visual Studio Code
EXPLORER
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kubernetes
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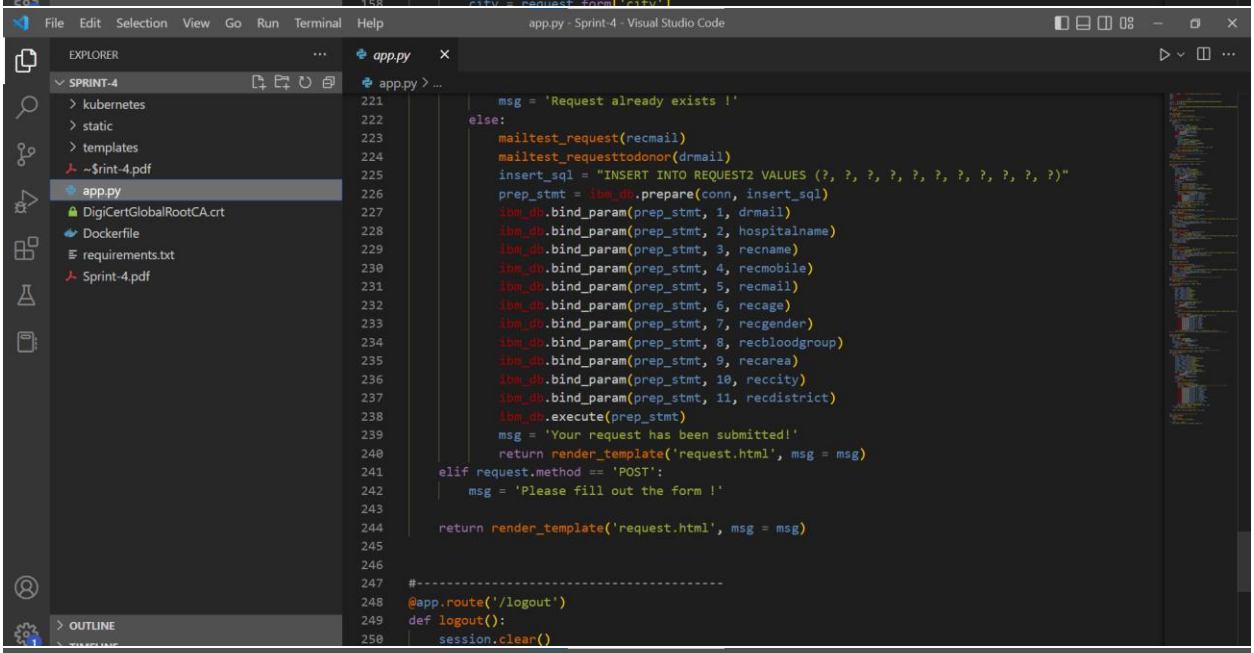
~$rint-4.pdf
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
OUTLINE
app.py
app.py > ...
#for request sending to donor
#
def mailtest_requesttodonor(to_email):
sg = sendgrid.SendGridAPIClient(api_key= api_key)
from_email = Email("19cs157@kpriet.ac.in")
subject = "Requesting Plasma"
content = Content("text/plain", "Your registration has been requested by a recipient, we will sha
mail = Mail(from_email, to_email, subject, content)
response = sg.client.mail.send.post(request_body=mail.get())
print(response.status_code)
print(response.body)
print(response.headers)
#---
@app.route("/register")
def register():
return render_template('register.html')
@app.route("/adddonor",methods = ['POST','GET'])
def adddonor():
if request.method == 'POST':
name = request.form['name']
mobile = request.form['mobile']
email = request.form['email']
age = request.form['age']
gender = request.form['gender']
blood = request.form['blood']
area = request.form['area']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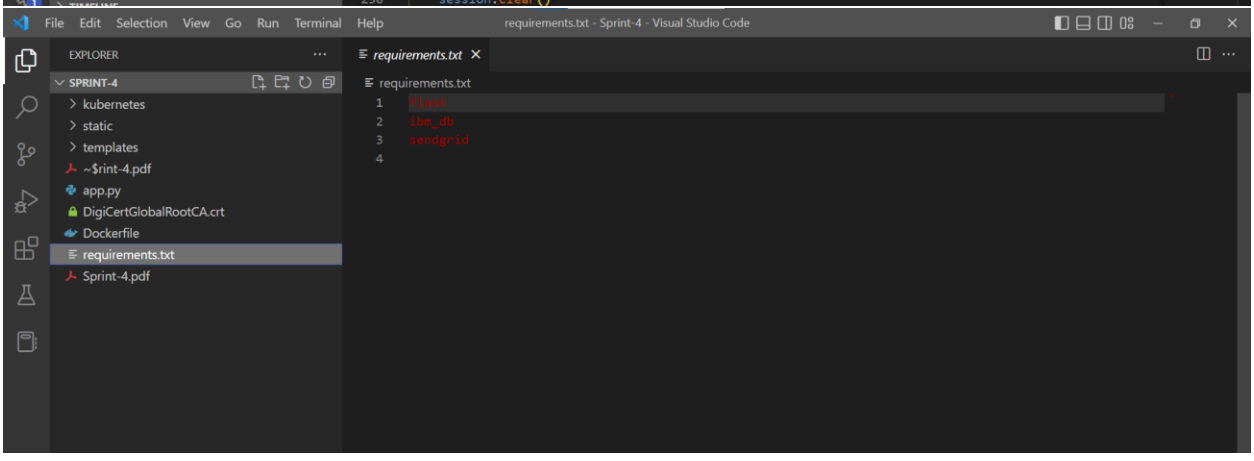
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
OUTLINE
app.py
app.py > ...
msg = 'Request already exists !'
else:
mailtest_request(recmail)
mailtest_requesttodonor(drmail)
insert_sql = "INSERT INTO REQUEST2 VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, drmail)
ibm_db.bind_param(prep_stmt, 2, hospitalname)
ibm_db.bind_param(prep_stmt, 3, recname)
ibm_db.bind_param(prep_stmt, 4, recmobile)
ibm_db.bind_param(prep_stmt, 5, recmail)
ibm_db.bind_param(prep_stmt, 6, recage)
ibm_db.bind_param(prep_stmt, 7, recgender)
ibm_db.bind_param(prep_stmt, 8, recbloodgroup)
ibm_db.bind_param(prep_stmt, 9, recarea)
ibm_db.bind_param(prep_stmt, 10, reccity)
ibm_db.bind_param(prep_stmt, 11, recdistrict)
ibm_db.execute(prep_stmt)
msg = 'Your request has been submitted!'
return render_template('request.html', msg = msg)
elif request.method == 'POST':
msg = 'Please fill out the form !'
return render_template('request.html', msg = msg)
#--
@app.route('/logout')
def logout():
session.clear()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requirements.txt - Sprint-4 - Visual Studio Code
EXPLORER
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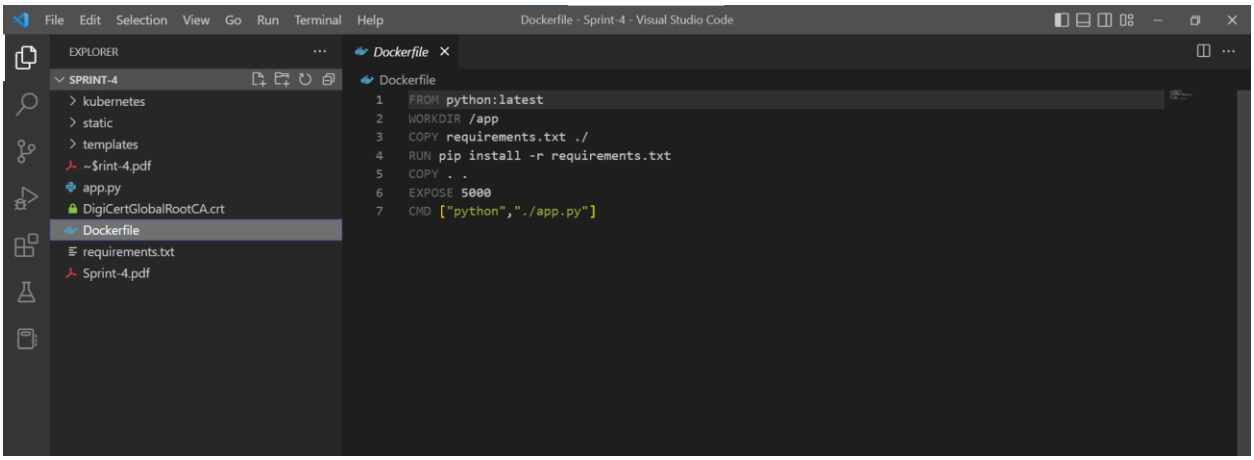
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
requirements.txt
requirements.txt
flask
ibm_db
sendgrid


File Edit Selection View Go Run Terminal Help
Dockerfile - Sprint-4 - Visual Studio Code
EXPLORER
SPRINT-4
kubernetes
static
templates
~$rint-4.pdf
app.py
DigiCertGlobalRootCA.crt
Dockerfile
requirements.txt
Sprint-4.pdf
Dockerfile
Dockerfile
1 FROM python:latest
2 WORKDIR /app
3 COPY requirements.txt ./
4 RUN pip install -r requirements.txt
5 COPY . .
6 EXPOSE 5000
7 CMD ["python","./app.py"]