ASSIGNMENT-3

J.INDRA SIBI VV COLLEGE OF ENGINEERING III-YEAR CSE

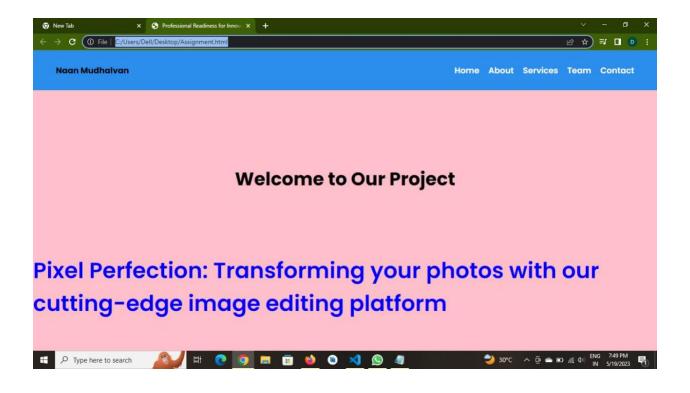
In the Assignment, you created 3 HTML files (index, profile and log-in), CSS files and stored the registration data in IBM db2 and did login validation.

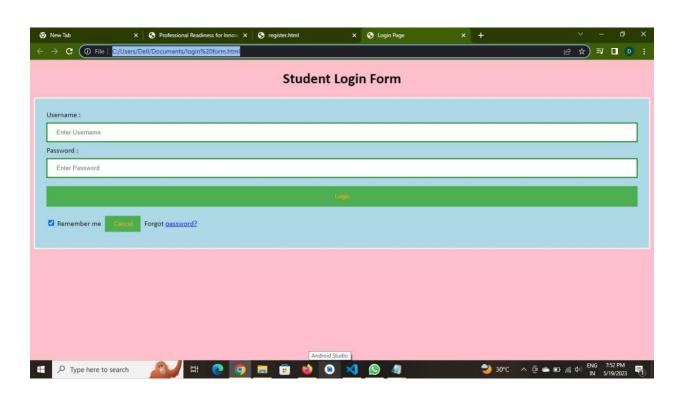
In this assignment follow these tasks

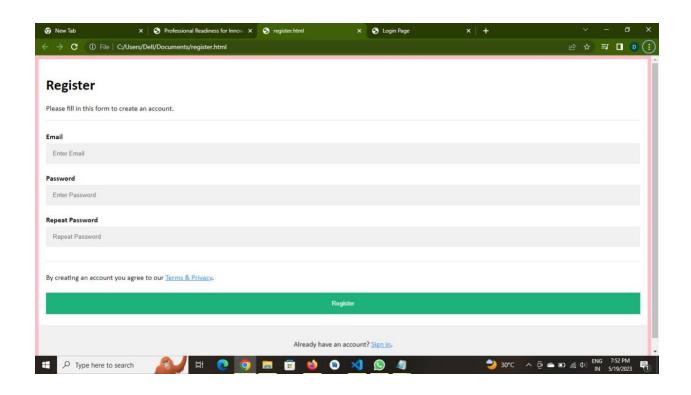
Task 1: You have to containerize the whole application by using the docker

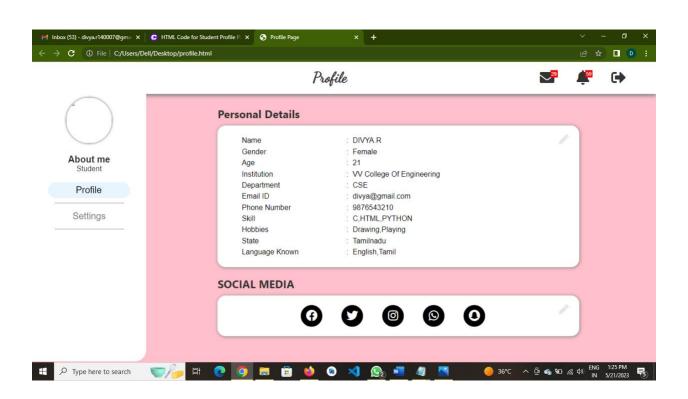
Task 2: Upload this docker image to the IBM container registry

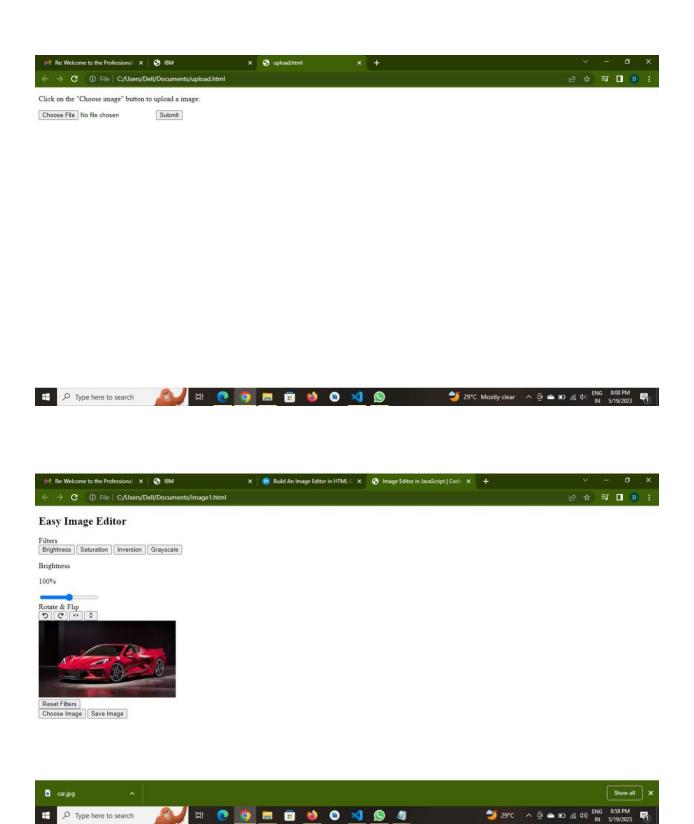
Task 3: Then orchestrate the docker container using Kubernetes.

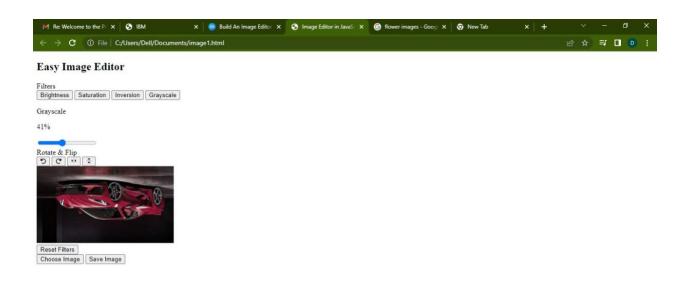


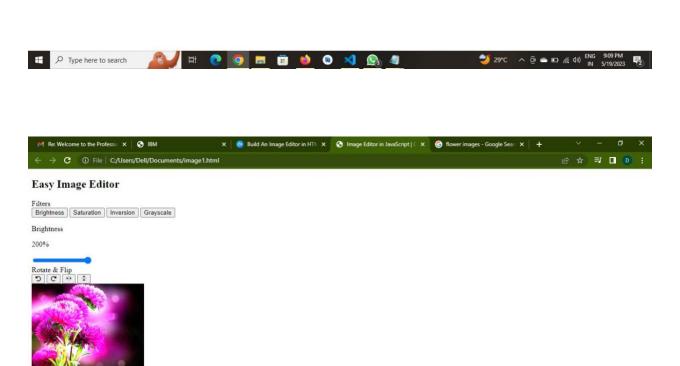






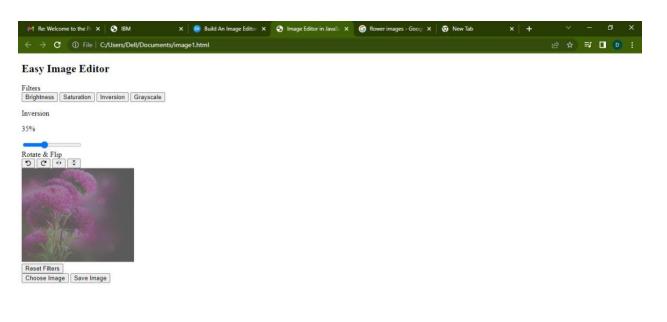


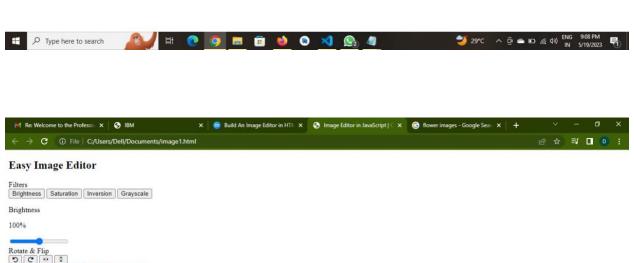




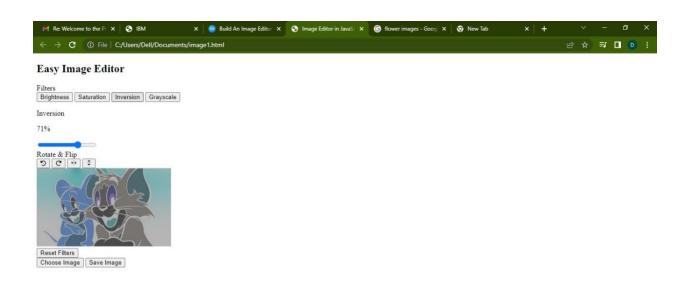


Reset Filters
Choose Image Save Image

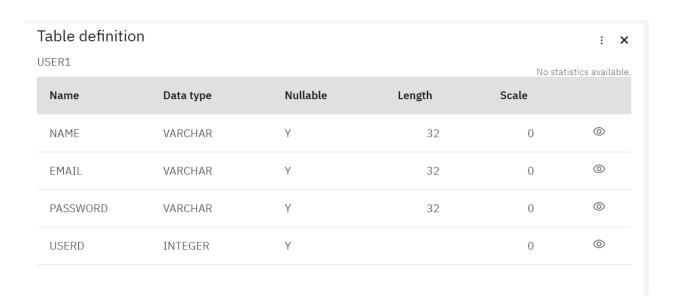














FNC49721.USER1

Table definition : x

IMAGE_URL

IMAGE_UKE	No statistics available.				
Name	Data type	Nullable	Length	Scale	
USERD	INTEGER	Υ		0	(a)
IMAGE_BG	LONG VARCHAR	Υ	32700	0	
VEHICLE_BG	LONG VARCHAR	Υ	32700	0	
CARTOON_IMG	LONG VARCHAR	Υ	32700	0	(
SKIN_BEAUTY	LONG VARCHAR	Υ	32700	0	(
SKIN_DISEASE	LONG VARCHAR	Υ	32700	0	(3)
IMG_MOTION	LONG VARCHAR	Υ	32700	0	
3DCARTOON_IMG	LONG VARCHAR	Υ	32700	0	0

FNC49721.IMAGE_URL

Back

							Export to CSV
USERD	IMAGE_BG	VEHICLE_BG	CARTOON_IMG	SKIN_BEAUTY	SKIN_DISEASE	IMG_MOTION	3DCARTOON_IMG
1	https://ai-result- rapidapi.ailabtools.com/cutout/s egmentCommodity/2023/02/28 /100436-8394cf02-0827-70fb- 6c42-10ea39c96cbb- 1677578676.png						
1			https://ai-result- rapidapi.ailabtools.com/faceBody/ge nerateHumanAnimeStyle/2023/03/0 5/084320-680f116c-eea2-f2b8- 8414-a55d8bb322db- 1678005800.png				
1	https://ai-result- rapidapi.ailabtools.com/cutout/s egmentCommodity/2023/03/05 /094439-6dc63a0d-a844-aec9- 05e2-0a65ba9a07c6- 1678009479.png						
1	https://ai-result- rapidapi.ailabtools.com/cutout/s egmentCommodity/2023/03/05 /094051-0fed12e6-d567-c314- 4e2f-aa6ab31b11eb- 1678009251.png						
1		https://ai-result- rapidapi.ailabtools.com/cutout/se gmentVehicle/2023/03/04/1715 55-4bcb69e2-35dd-5608-3be4- e2004a54e98f-1677950155.png					
1				https://ai-result- rapidapi.ailabtools.com/faceBody/ retouchSkin/2023/03/03/185451-			

```
from flask import Flask, render_template, request, redirect, url_for, session

app = Flask(__name__)
app.secret_key = 'a'

@app.route("/")
def home():
    return "Hello world"

if __name__ == '__main__':
    app.run(host='0.0.0.0', debug=True)
```

```
#routing to home page
@app.route('/', methods=['POST','GET'])
def homepage():
    return render_template('index.html')

#routing to home page after login of user
@app.route('/home', methods=['POST','GET'
@if after_login():
    return render_template('home.html')
```

```
• • •
   #user login code
3 @app.route('/login', methods=['POST','GET'])
4 def login_page():
        msg = ''
        if request.method == "POST":
            EMAIL = request.form["email"]
            PASSWORD = request.form["password"]
            sql = "SELECT * FROM USER1 WHERE EMAIL=? AND PASSWORD=?"
            stmt = ibm db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, EMAIL)
12
            ibm_db.bind_param(stmt, 2, PASSWORD)
13
            ibm_db.execute(stmt)
            account = ibm_db.fetch_assoc(stmt)
            print(account)
            if account:
                session['Loggedin'] = True
                session['USERD'] = account['USERD']
                session['NAME'] = account['NAME']
                msg = "logged in successfully !"
                return redirect(url_for('after_login'))
            else:
                msg = "Incorrect Email/password"
                return render_template('login.html', msg=msg)
        return render_template('login.html', msg=msg)
```

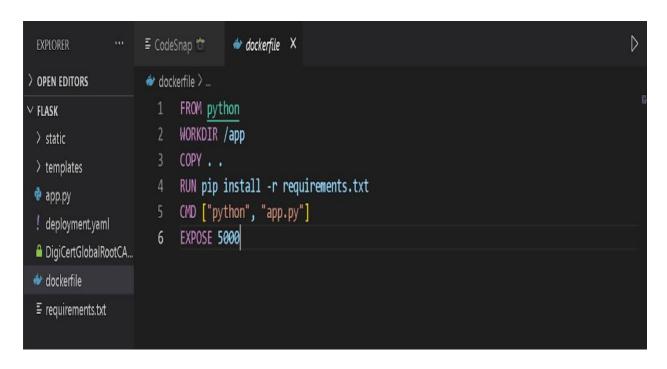
```
@app.route('/register', methods=['POST','GET'])
   def register_page():
       msg = ''
       if request.method == 'POST':
           NAME = request.form["name"]
           EMAIL = request.form["email"]
           PASSWORD = request.form["password"]
           sql = "SELECT* FROM USER1 WHERE EMAIL= ? AND PASSWORD=?"
            stmt = ibm_db.prepare(conn, sql)
            ibm_db.bind_param(stmt, 1, EMAIL)
            ibm_db.bind_param(stmt, 2, PASSWORD)
            ibm_db.execute(stmt)
            account = ibm_db.fetch_assoc(stmt)
           print(account)
           if account:
                msg = "Your deatils are already exists in the database Please logi
                return render_template('login.html')
            elif not re.match(r'[^0]+@[^0]+\.[^0]+', EMAIL):
               msg = "Invalid Email Address!"
           else:
               sql = "SELECT count(*) FROM USER1"
                stmt = ibm_db.prepare(conn, sql)
                ibm_db.execute(stmt)
                length = ibm_db.fetch_assoc(stmt)
                print(length)
                insert_sql = "INSERT INTO USER1 VALUES (?,?,?,?)"
                prep_stmt = ibm_db.prepare(conn, insert_sql)
                ibm_db.bind_param(prep_stmt, 1, NAME)
                ibm_db.bind_param(prep_stmt, 2, EMAIL)
                ibm_db.bind_param(prep_stmt, 3, PASSWORD)
                ibm_db.bind_param(prep_stmt, 4, length['1']+1)
                ibm_db.execute(prep_stmt)
                msg = "Successfully registed!"
                return render_template('login.html', msg=msg)
       return render_template('register.html', msg=msg)
```

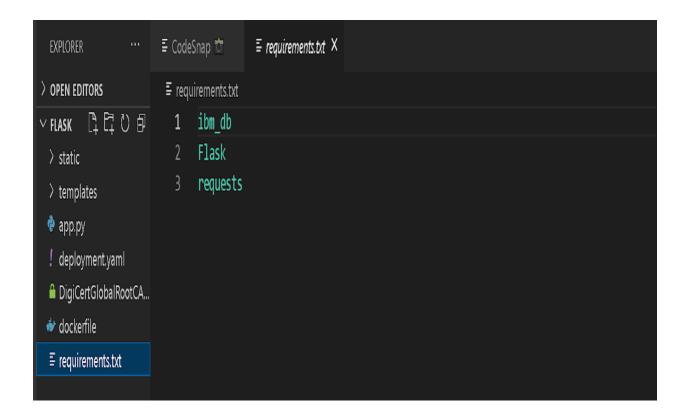
```
# for logout the user start
@app.route('/logout')
def logout():
    session.pop('loggedin', None)
    session.pop('USERD', None)
    return render_template('index.html')
```

```
1 # this lines of code for displaying the images retrived from db2 sta
2 @app.route('/beauty_images')
3 def beauty_img_ai():
      user='login'
      # user='loggedin'
     sql = "SELECT * FROM IMAGE_URL WHERE USERD=" +str(session['USERD'
   ]) stmt = ibm_db.prepare(conn, sql)
   ibm_db.execute(stmt)
      row = []
      while True:
          data = ibm_db.fetch_assoc(stmt)
          if not data:
              break
               row.append(data)
      print('rows: ', row)
       return render_template("My_images.html", rows=row, user1=user)
```

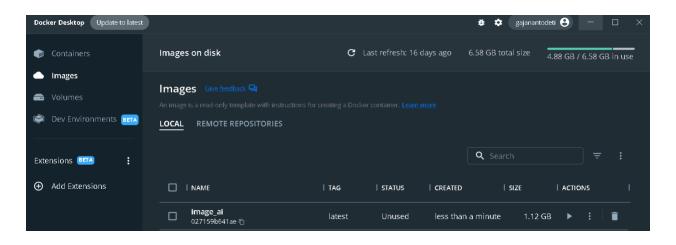
```
1 # main function start
2 if __name__=='__main__':
3 app.run(debug=True,host='0.0.0.0'
)
```

Task 1:





Task 2:



```
C:\Users\DELL> ibmcloud login
API endpoint: https://cloud.ibm.com
Region: eu-de
 :\Users\DFH|>ihmcloud plugin install container-registry
ooking up 'container-registry' from repository 'TRM Cloud'...
lug-in 'container-registry[cr] 1.0.6' found in repository 'IBM Cloud'
 :504d030134: Pushing [====
                                                                                      ] 160.3MB/528.8MB
o' or not? [y/N] > y
Attempting to download the binary file...
11.91 MiB / 11.91 MiB [------
.2484608 bytes downloaded
ac504d030134: Pushing [==========>
                                                                                      ] 158.7MB/528.8MB
Plug-in 'container-registry 1.0.6' was successfully installed into C:\Users\DELL\.bluemix\plugins\container-registry. Use 'ibmcloud p
 :\Users\UELL>ibmcloud or region-set us-south
he region is set to 'us-south', the registry is 'us.ior.io'.
ac504d030134: Pushing [========>
                                                                                     ] 157.5MB/528.8MB
::\Users\DELL>ibmcloud or namespace-add myimage_ai
Adding namespace 'myimage ai' in resource group 'Default' for account gajanan todeti's Account in registry us.icr.io...
Successfully added namespace 'myimage_ai'
ac504d030134: Pushing [========>
                                                                                      ] 147.6MB/528.8MB
157MB/528.8MB
                                                                                     ] 155.9MB/528.8MB
\Users\DELL>docker tag image_ai us.icr.io/myimage_ai/perfectimage
\Users\DELL>docker tag push us.icr.io/myimage_ai/perfectimage
ror response from daemon: No such image: push:latest
\Users\DELL>docker push us.icr.io/myimage_ai/perfectimage
sing default tag: latest
ne push refers to repository [us.icr.io/myimage_ai/perfectimage]
d1e28035ea: Pushed
50e41efaf9: Pushed
 dd8426b147: Pushed
 985d454104: Pushed
041520c0f1e: Pushed
706e6a9f98: Pushed
aa05faf31a: Pushed
504d030134: Pushing
                                                                                                    145.4MB/528.8MB
```

Task 3:

