

University of Sindh Jamshoro

# Group Members : Roll No.s Hamidullah 2K20/IT/44

**Sadar Ali 2K20/IT/106 Muhammad Aamir: 2K20/IT/67 Class : BS(IT)PART IV**

**Subject: Computer Vision Submitted to: Dr Sandar Ali Khowaja**

**Project On Image Processing**

**Save file with app.py name**

from flask import Flask, render\_template, request import cv2

import numpy as np app = Flask(\_\_name\_\_)

@app.route('/') def index():

return render\_template('index.html')

@app.route('/process', methods=['POST']) def process():

file = request.files['image']

image = cv2.imdecode(np.fromstring(file.read(), np.uint8), cv2.IMREAD\_COLOR) gray\_image = cv2.cvtColor(image, cv2.COLOR\_BGR2GRAY)

\_, processed\_image = cv2.imencode('Hamid.jpg', gray\_image)

processed\_image\_base64 = processed\_image.tobytes().hex()

return render\_template('result.html', image=processed\_image\_base64) if \_\_name\_\_ == '\_\_main\_\_':

app.run(debug=True)

**index.html file**

<!DOCTYPE html>

<html>

<head>

<title>Image Processing</title>

</head>

<body>

<h1>Image Processing</h1>

<form action="/process" method="POST" enctype="multipart/form-data">

<input type="file" name="image" accept="image/\*">

<input type="submit" value="Process">

</form>

</body>

</html>

**result.html file**

<!DOCTYPE html>

<html>

<head>

<title>Result</title>

</head>

<body>

<h1>Result</h1>

<img src="data:image/jpeg;base64,{{ image }}">

</body>

</html>

# Save all the files and run the Flask application:

**python app.py**

**Now, we can access the web page by visiting http://localhost:5000 in your browser. The page will allow you to upload an image, and after processing it, it will display the processed image on the result page.**