Senior Design Project 2023-2024

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Automatic Attendence System Using Image Processing

Goal

- Create web application for attendece system using face

Libraries

OpenCV

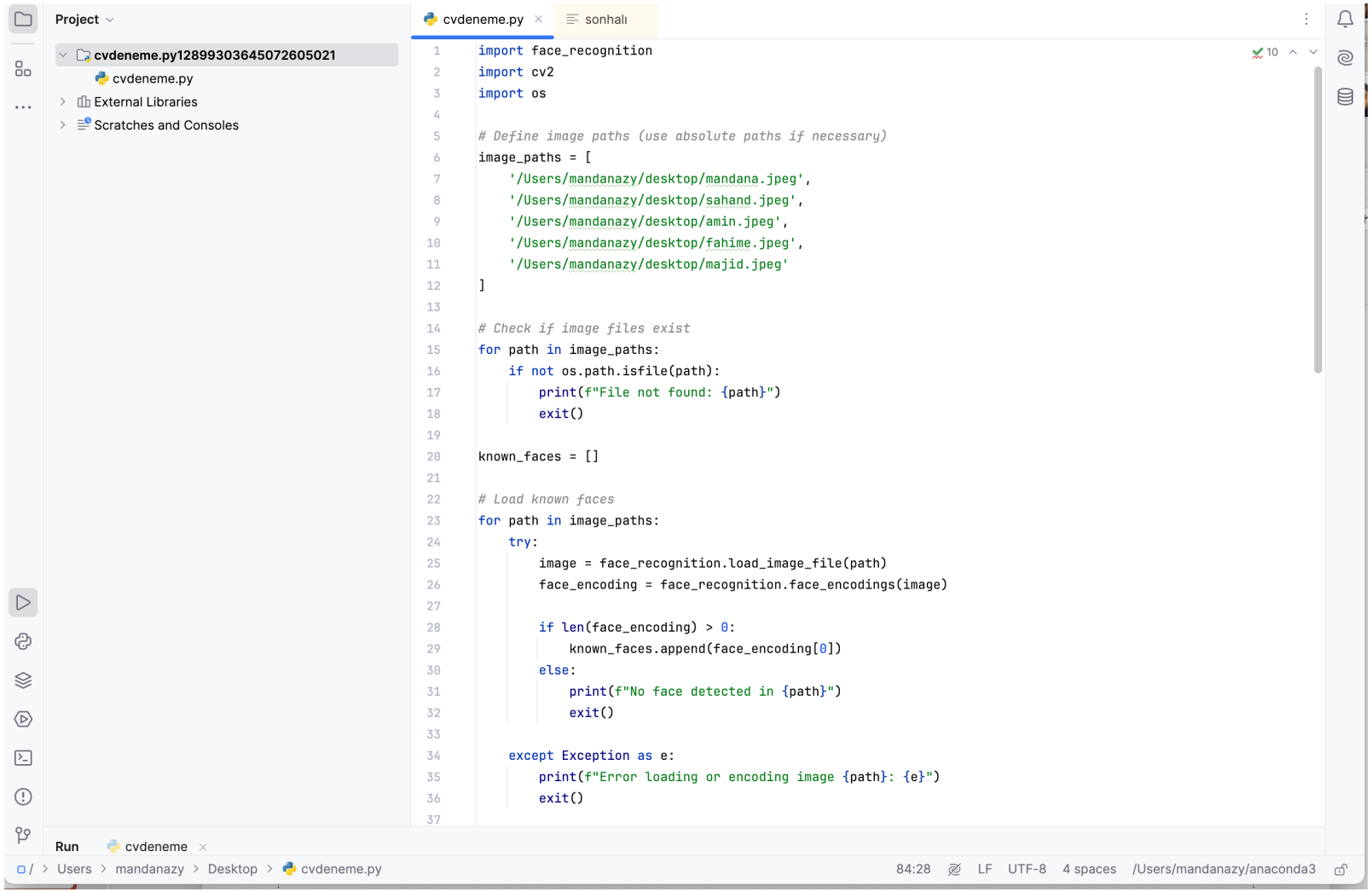
Face Recognition

How does the codes work

For this attendence system, the codes, rcognize the face that show to the camera and and find the face between photoes of students

Language

- PyCharm

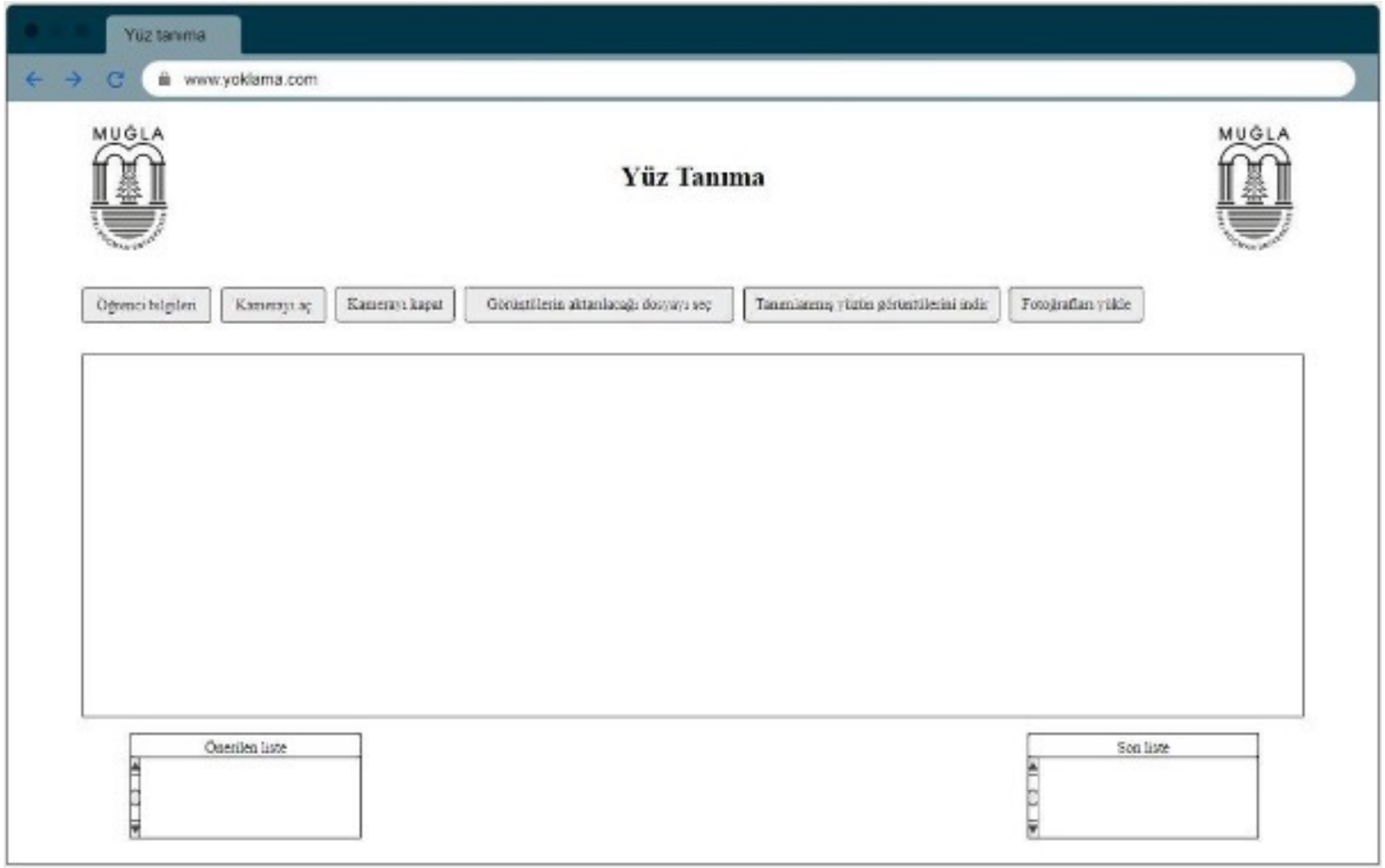

Project
cvdeneme.py1289930364507260502 1
cvdeneme.py
External Libraries
Scratches and Consoles
cvdeneme.py
sonhalı
10
import face_recognition
import cv2
import os
# Define image paths (use absolute paths if necessary)
image_paths = [
'/Users/mandanazy/desktop/mandana.jpeg',
'/Users/mandanazy/desktop/sahand.jpeg',
'/Users/mandanazy/desktop/amin.jpeg',
'/Users/mandanazy/desktop/fahime.jpeg',
'/Users/mandanazy/desktop/majid.jpeg'
]
# Check if image files exist
for path in image_paths:
if not os.path.isfile(path):
print(f"File not found: {path}")
exit()
known_faces = []
# Load known faces
for path in image_paths:
try:
image = face_recognition.load_image_file(path)
face_encoding = face_recognition.face_encodings(image)
if len(face_encoding) > 0:
known_faces.append(face_encoding[0])
else:
print(f"No face detected in {path}")
exit()
except Exception as e:
print(f"Error loading or encoding image {path}: {e}")
exit()
Run
cvdeneme
/ Users mandanazy Desktop cvdeneme.py
84:28
LF
UTF-8
4 spaces
/Users/mandanazy/anaconda3

Demo codes

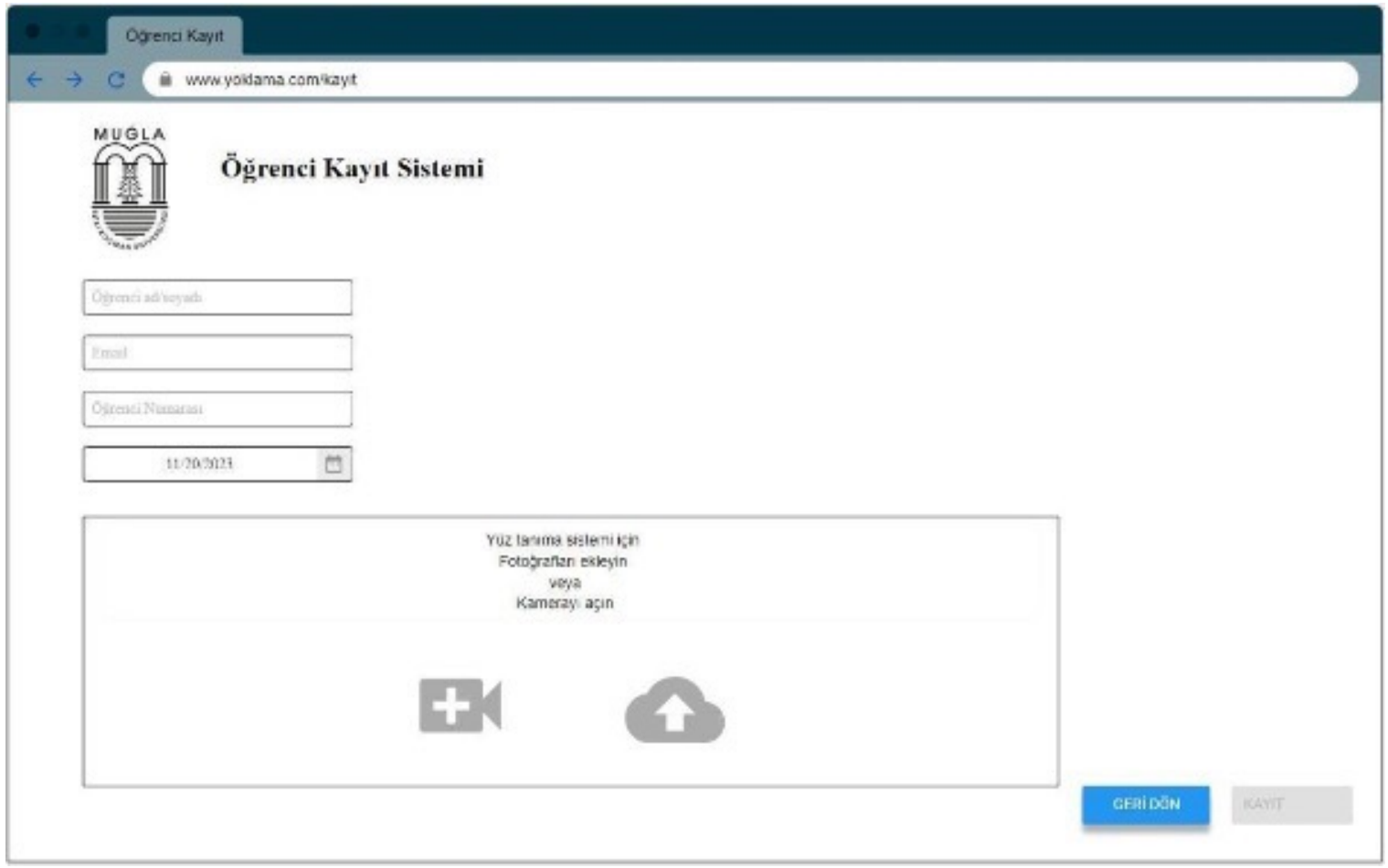
Code Description

- Five images are specified and saved. When the code starts working, the camera is turned on and records the face image, and then recognizes the face from the saved images.

Graphical Usage Interface



Student's registering system



Thank you!

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