Senior Design Project 2023-2024

Mandana Zooyousefin

Muğla Sıtkı Koçman University

Advisor:
DR.Tuğba ÖNAL SÜZEK
Department of computer engineering









Goal

 Create web application for attendece system using face

Libraries



OpenCV

Face Recognition





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



```
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     Project
                                                  cvdeneme.py × ≡ sonhalı
                                                         import face_recognition
      import cv2
          cvdeneme.py
                                                         import os
                                                                                                                                                                   > file External Libraries
      Scratches and Consoles
                                                         # 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'
                                                   12
                                                         # Check if image files exist
                                                         for path in image_paths:
                                                             if not os.path.isfile(path):
                                                                 print(f"File not found: {path}")
                                                                exit()
                                                   18
                                                   19
                                                         known_faces = []
                                                         # Load known faces
                                                         for path in image_paths:
                                                                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])
                                                                     print(f"No face detected in {path}")
                                                   31
                                                   32
                                                                     exit()
D
                                                   33
>_
                                                             except Exception as e:
                                                                 print(f"Error loading or encoding image {path}: {e}")
                                                   35
(!)
                                                   36
                                                                exit()
                                                   37
           cvdeneme
□ / > Users > mandanazy > Desktop > ♣ cvdeneme.py
                                                                                                             84:28 Ø LF UTF-8 4 spaces /Users/mandanazy/anaconda3 ₪
```

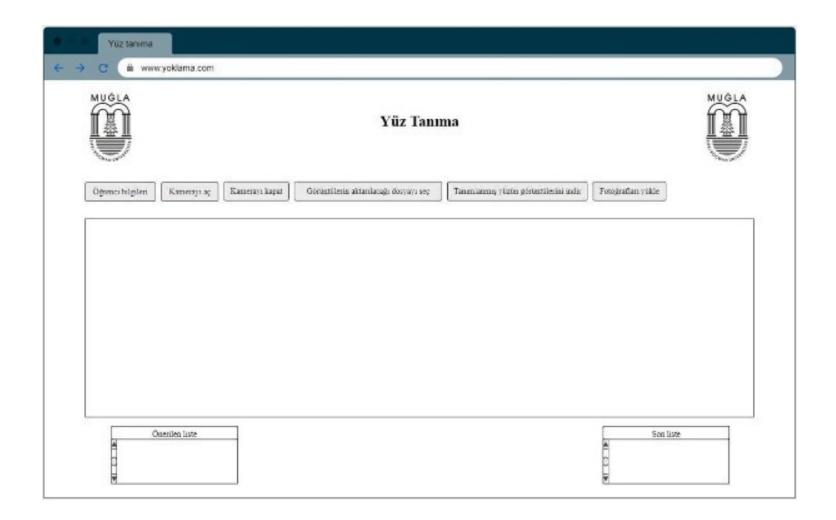
Demo codes

```
_________ modifier_ob.
 mirror object to mirror
mirror_object
 peration == "MIRROR_X":
eirror_mod.use_x = True
mirror_mod.use_y = False
irror_mod.use_z = False
 _operation == "MIRROR_Y"
lrror_mod.use_x = False
 !Tror_mod.use_y = True
 !rror_mod.use_z = False
  _operation == "MIRROR_Z"
  _rror_mod.use_x = False
  rror_mod.use_y = False
  rror_mod.use_z = True
  melection at the end -add
   ob.select= 1
   er ob.select=1
   ntext.scene.objects.action
   "Selected" + str(modifier
    rror ob.select = 0
  bpy.context.selected_obj
   lata.objects[one.name].sel
  int("please select exaction
  OPERATOR CLASSES ----
    X mirror to the selected
     pes.Operator):
    ject.mirror_mirror_x"
  ext.active_object is not
```

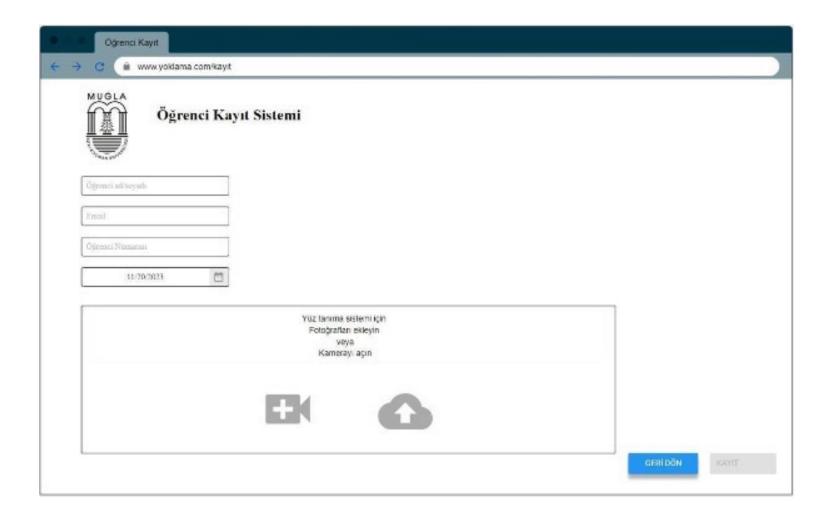
Code Description

 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.





Student's registering system



Thank you! Email: zooyousefinmandana@gmail.com