

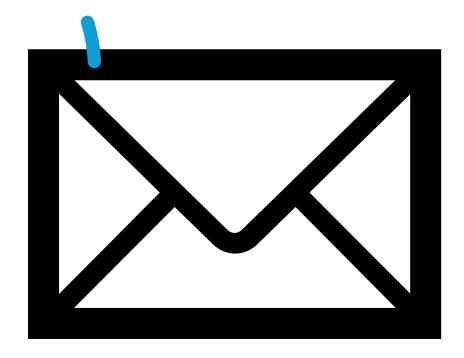
PACKAGES USED

- Tinker use for creating GUI
- Messagebox and simpledialog for showing messages ang dialog boxes
- Subprocess for running external scripts
- Json to convert json strings to python objects
- Os for interacting with operaating systems
- Smtplib and MIME TEXT for sending emails
- PIL for handling images
- Webbrowser to open urls
- CV2 is an opency library used for video capturing



EMAIL <-- SENDING FUNCTION

- def send_email(subject, message):
- global email_settings
- try:
- msg = MIMEText(message)
- msg['Subject'] = subject
- msg['From'] = email_settings['EMAIL_ADDRESS']
- msg['To'] = email_settings['TO_EMAIL']
- with smtplib.SMTP('smtp.gmail.com', 587) as server:
- server.starttls()
- server.login(email_settings['EMAIL_ADDRESS'], email_settings['EMAIL_PASSWORD'])
- server.send_message(msg)
- except Exception as e:
- messagebox.showerror("Error", f"Failed to send email: {str(e)}")



- send_email: Composes and sends an email notification.
- Constructs the email message and uses Gmail's SMTP server to send it.
- Catches any exceptions and shows an error message if sending fails.



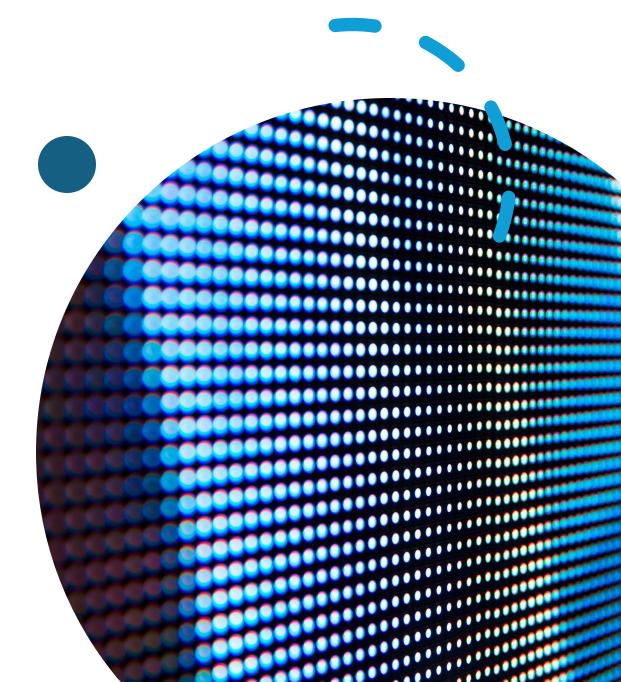
EMAIL ALERT

def send_email_alert(): subject =
"Unauthorized Access Alert"
message = "An incorrect
password was entered."
send_email(subject, message)

..... Send_email_alert sends a specific alert email as "unauthorized acess alert"

VIDEO CAPTURE FUNCTION

```
def capture_video():
 cap = cv2.VideoCapture(0)
 if not cap.isOpened():
   return
 fourcc = cv2.VideoWriter_fourcc(*'XVID')
 out = cv2.VideoWriter('intrusion_video.avi', fourcc, 20.0, (640, 480))
 start time = time.time()
 while int(time.time() - start_time) < 10:
   ret, frame = cap.read()
   if ret:
     out.write(frame)
    else:
     break
 cap.release()
 out.release()
 cv2.destroyAllWindows()
```





- Capture_video it captures 10 seconds video from the webcam
- It checks if the webcam is available then starts to capture 10 seconds of video
- Saves the video intrusion_video.avi and releases resources afterward.

CAMERA CONTROL FUNCTION

- def disable_camera():
- result = subprocess.run([r'disable_cam.bat'], shell=True)
- if result.returncode == 0:
- messagebox.showinfo("Success", "Camera disabled successfully.")
- else:
- messagebox.showerror("Error", "Failed to disable the camera.")

