

Robust Human Target Detection

Ministry/Organization Name/Student Innovation:
Ministry of Defence






PS Code: SIH1419

**Problem Statement Title: Robust Human Target
Detection and Acquisition**









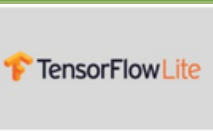

Team Name: Ofcourse

Institute Name: KJ Somaiya College of Engineering

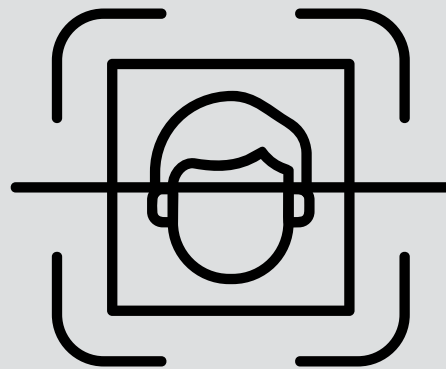
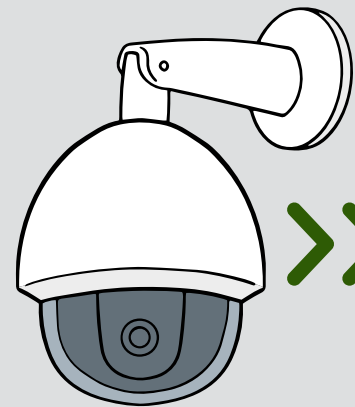
INFORMATION

-  *Security and surveillance demand accurate and reliable human target detection and tracking methods.*
-  *Human target detection enhances security by identifying potential threats and facilitating preventive measures in surveillance.*
-  *Challenges in human target detection include occlusion, pose variation, and varying lighting conditions.*
-  *Deep learning algorithms have emerged as powerful tools for accurate human target detection through diverse dataset learning.*
-  *Deep learning trains neural networks to recognize human targets based on labeled image datasets.*
-  *Acquisition methods for human target detection encompass cameras, sensors, and drones, each with distinct strengths and limitations.*

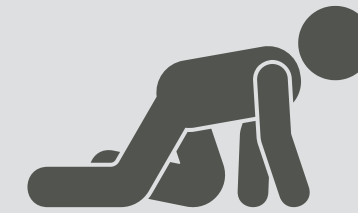
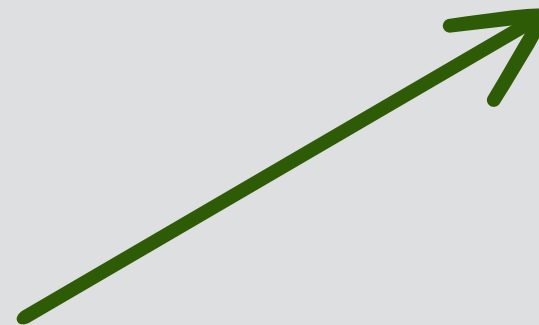
TEXT STACK USED:

FRONTEND LANGUAGES		BACKEND LANGUAGES		
				
				

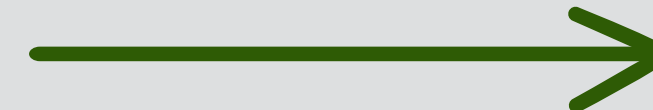
FLOW DIAGRAM



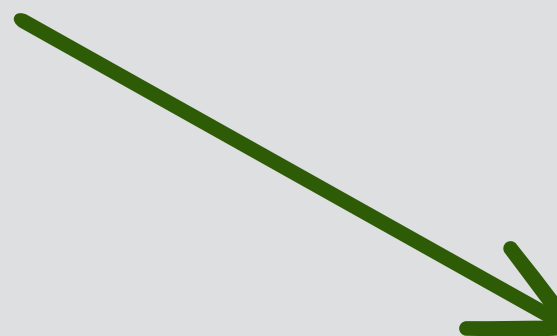
HUMAN DETECTED



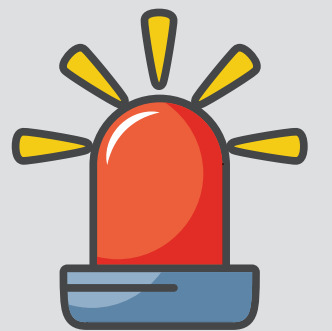
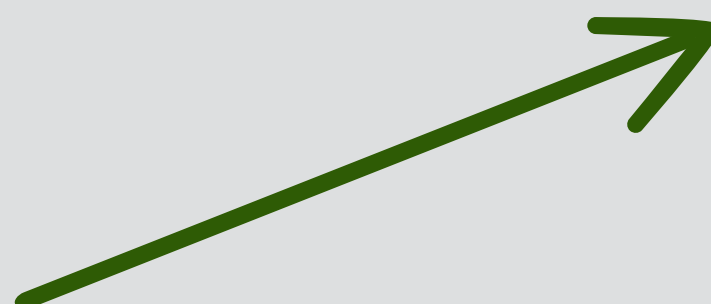
CRAWLING



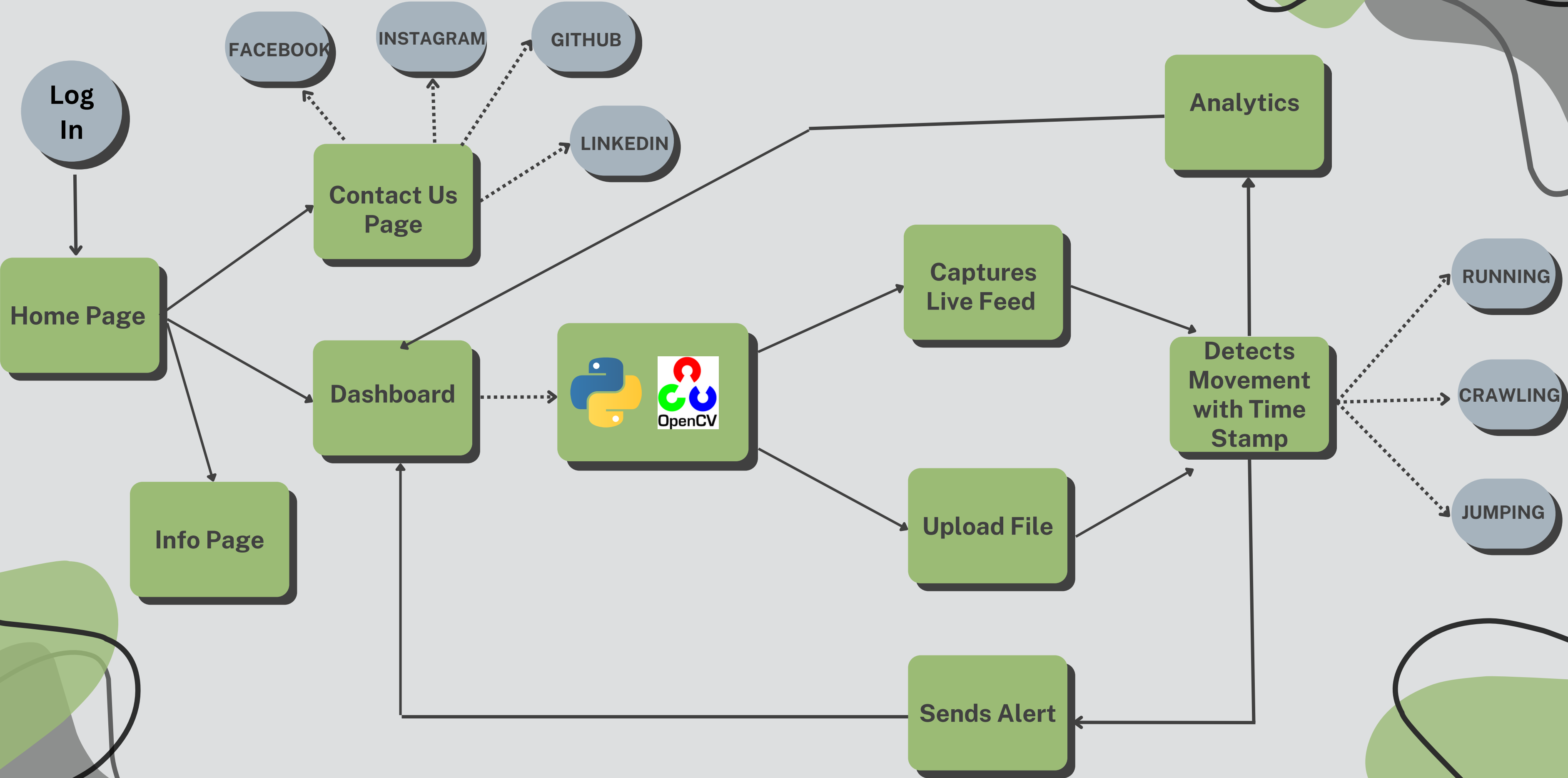
RUNNING



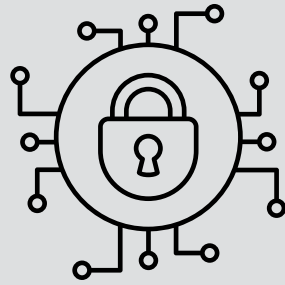
JUMPING



SYSTEM ARCHITECTURE



IMPACT



Enhanced Security:

We can quickly identify potential threats, allowing our defense forces to respond proactively.

Real-time Insights:

Enabling immediate action and decision-making.

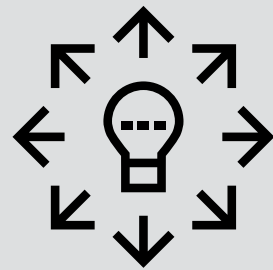


User-friendly Interface:

The frontend design ensures that even non-technical personnel can use our system effectively

Cost-efficiency:

Open-source tools like OpenCV, TensorFlow Lite, and Flask API minimize costs while maximizing performance.



Scalability:

Our architecture allows for easy scalability, accommodating future enhancements and additional features.