
Proglint's Computer Vision 2k23 National Hackathon

Round 2

Virtual Invigilator(Proctor) For Online Examination Invigilation

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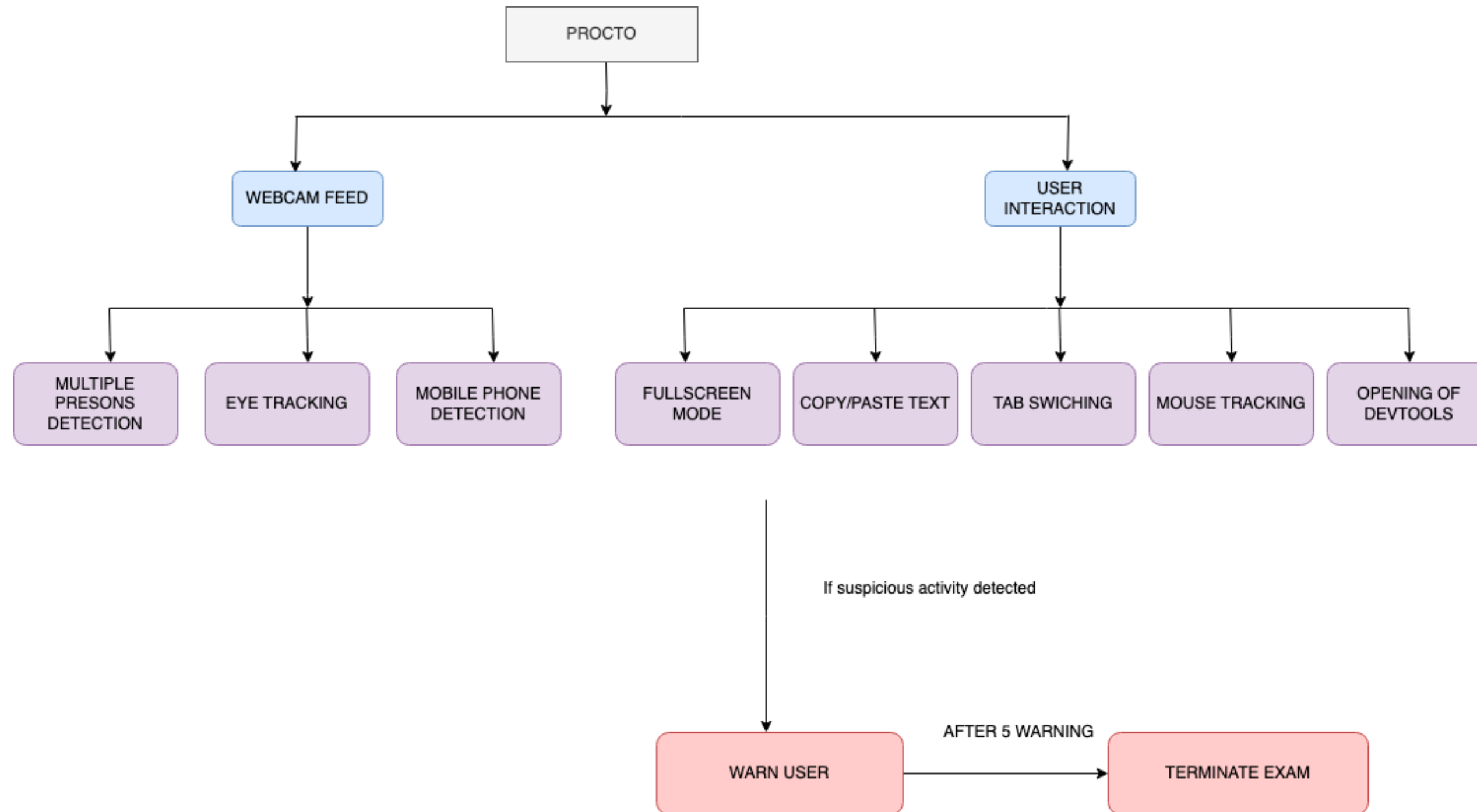
USE CASE– 1 : Virtual Invigilator(Proctor) For Online Examination Invigilation

- Monitor Eye Movement Beyond the Monitor Screen
- Movement of Mouse Out of MS Windows
- Restrict Opening of New Tab
- Restrict Running of browser and chat applications in the Background

Our Solution

- **Procto**, the Virtual Invigilator that can do it all.
 - **Real-time Processing of Video and User Interaction**
 - **Web Application with a user friendly interface**
 - **Resource efficient solution** thereby reducing computation cost
 - Logs all suspicious activities in real-time and reports to invigilator
 - Automatically terminates test if student is found to cheat
 - **Additional Features:**
 - Mobile Phone Detection
 - Multi-Person Detection
-

Soution Architecture



Tech Stack



socket.io



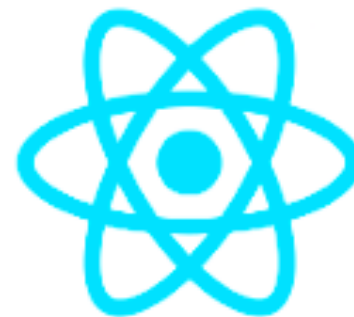
WebRTC



Redux



ultralytics
YOLOv8



React JS



python™



tailwindcss



Flask

web development,
one drop at a time



MediaPipe



supabase

The background features a series of overlapping, semi-transparent geometric shapes in various shades of green and white, creating a modern, abstract design. The shapes include large triangles and curved polygons that intersect to form a dynamic, layered effect.

Thank You