



Revolutionizing Online Exams: Introducing

The Online Exam Proctor

Say goodbye to manual exam protraction complications!





Agenda



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2 Problem Statement

3 Solution Overview

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Introduction

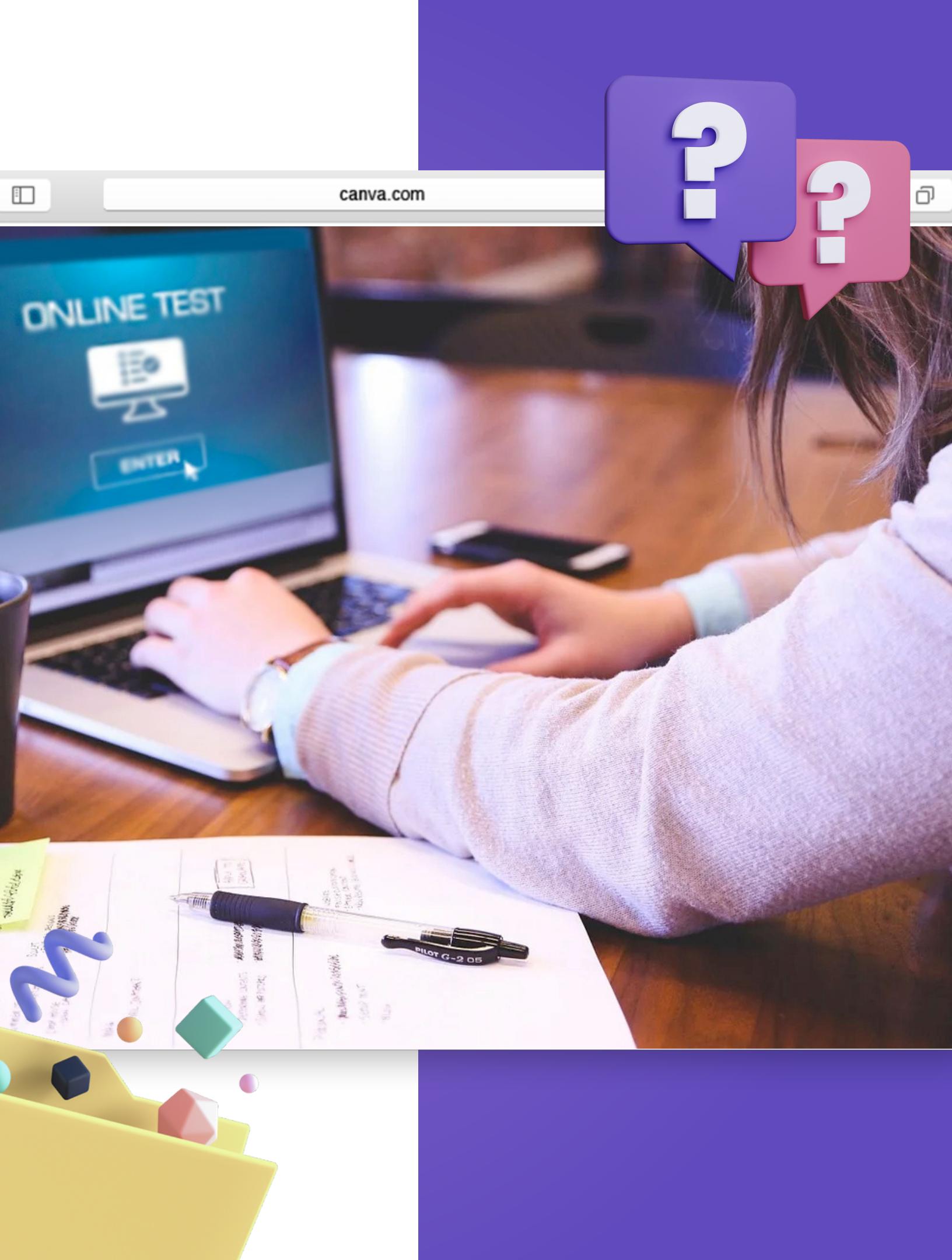
- Online Examinations are utilized in day to day lives by many institutions
- Online Examinations save time and reduce unwanted human errors





Project's Mission

“ Enhancing Online Exam Integrity through
Computer Vision”



Importance of Assessments in Education →

“ Assessments determine whether or not a student meets with the **Learning Objectives**”

It is very important for the assessments to...

- be free from bias
- have transparency
- be reliable



Challenges in Online Assessments



Performance
Tracking and
Monitoring



Student's
Behavior
Analysis

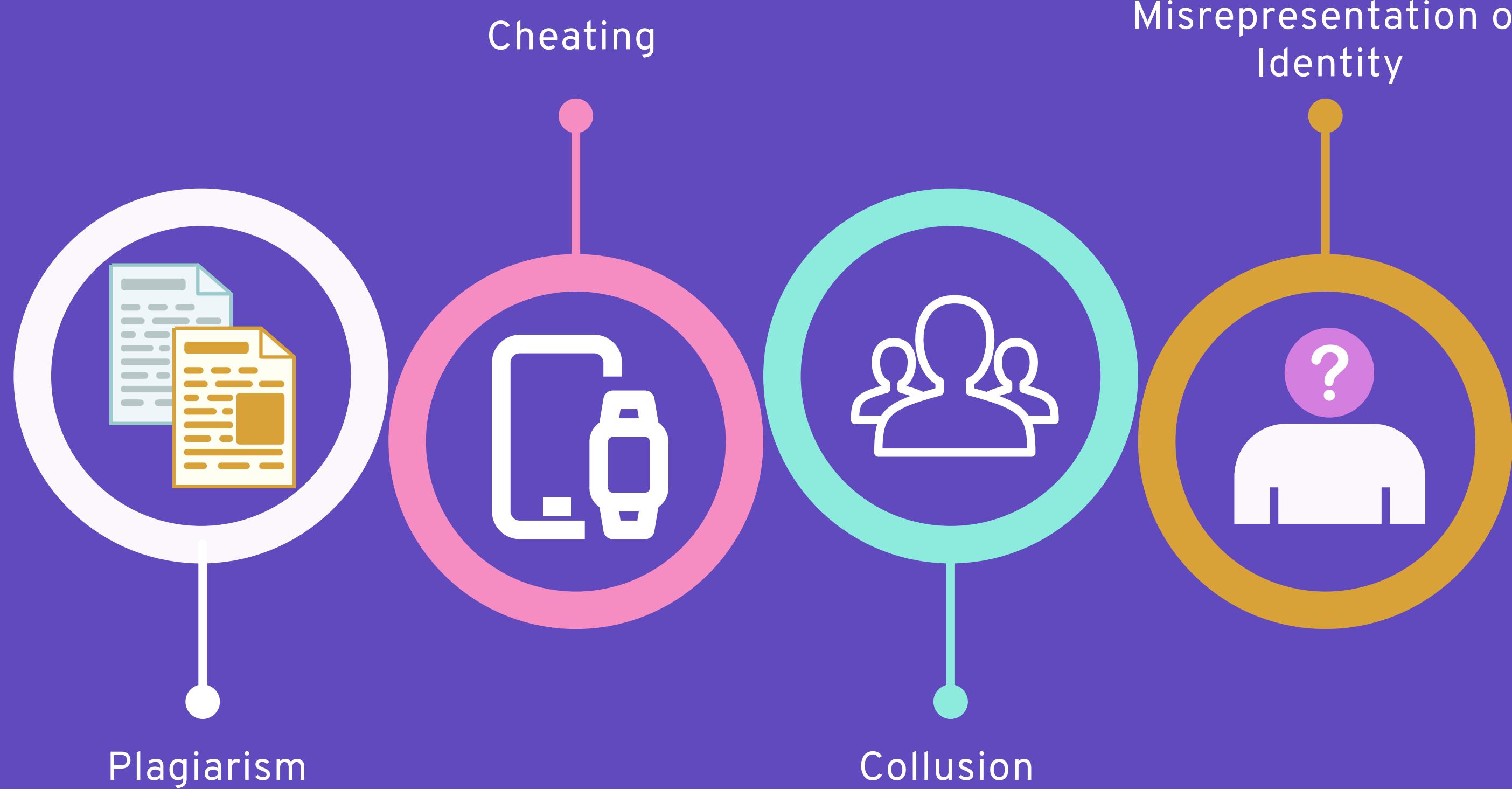


Real-time
Reporting of
Assessment Results

Problem Statement



Shortcomings of traditional online exams



What need to improve?



Ensuring the fairness and authenticity of online exams is a crucial concern for educational institutions and organizations conducting remote assessments

Real-time monitoring
of students

Recording the entire exam
session for later review

Live
Proctoring

Biometric
Verification

Recorded
Proctoring

Authentication
Measures

Facial recognition to verify
the identity of test-takers

to ensure that the person taking
the exam is the registered student

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Introducing the Online Exam Proctor Solution



Solution Overview





What is OEP?

- Online exam proctor is designed to ensure integrity and fairness of online exams
- Prevents cheating and maintains the credibility of online exams
- Utilizes Computer Vision and AI Technologies to monitor and analyze students' behaviors

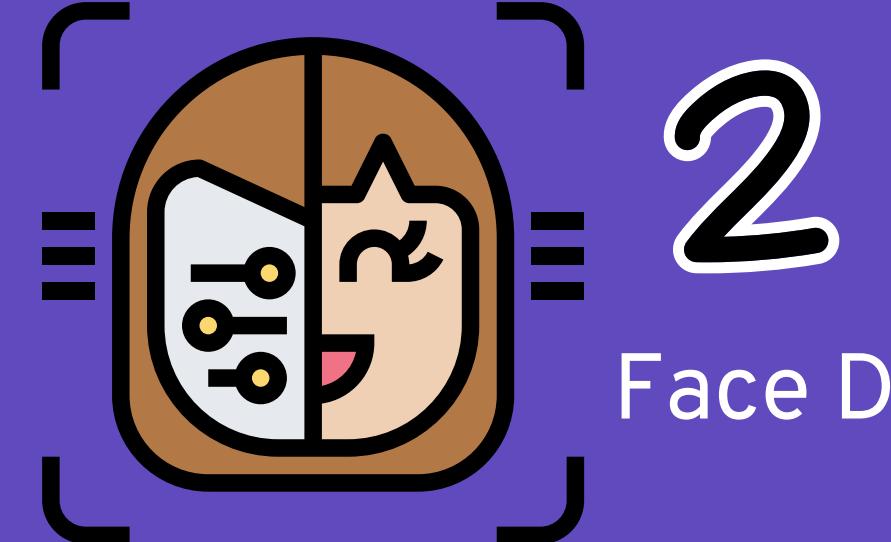


OEP is a Game Changing Solution



Main Features of the OEP System

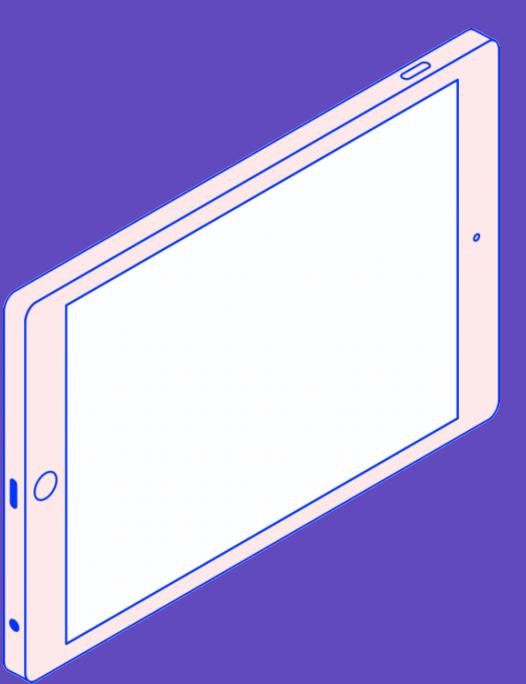
1
Website Application



3
Movement, People
and Device
Detection



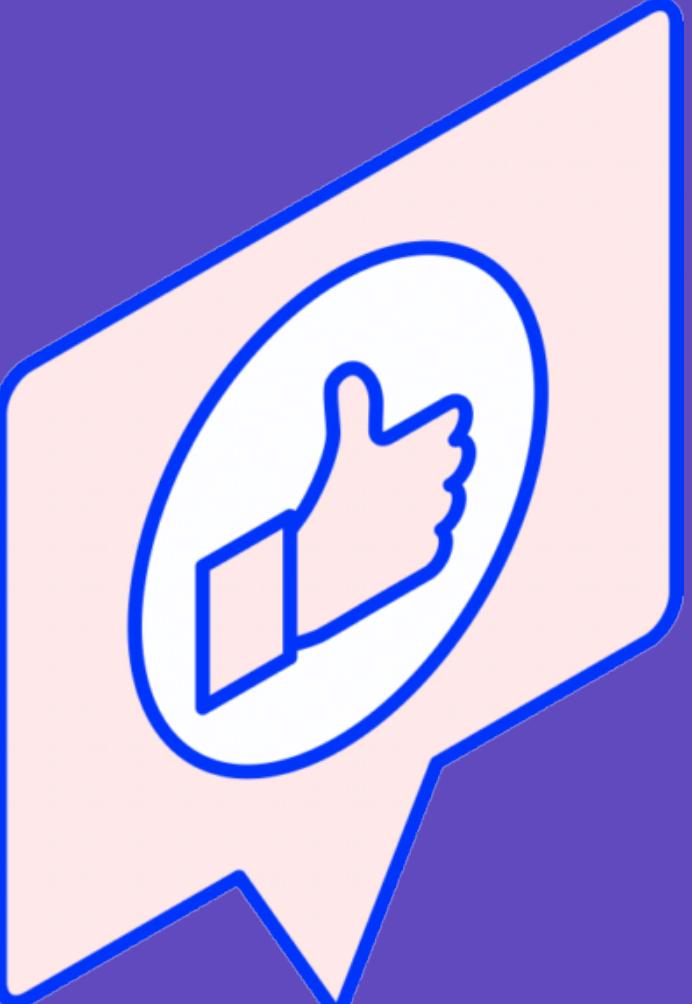
2
Face Detection



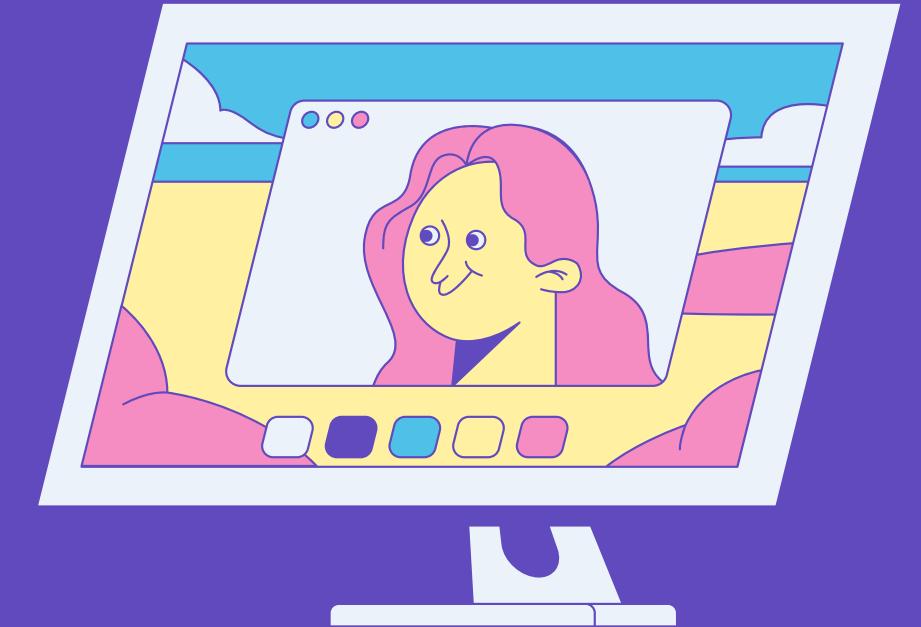
4
Screen Detection



5
Voice Detection



Benefits and Impacts of Online Exam Proctor Solution





Benefits of OEP

Several Stakeholders are benefited!

- OEP prohibits cheating by the uses of multiple detections
- Exams can be taken at the test-taker's convenience
- Saves time and resources by eliminating the need to travel to a physical testing location
- Provides more efficient and accurate results by using automated systems to grade exams.

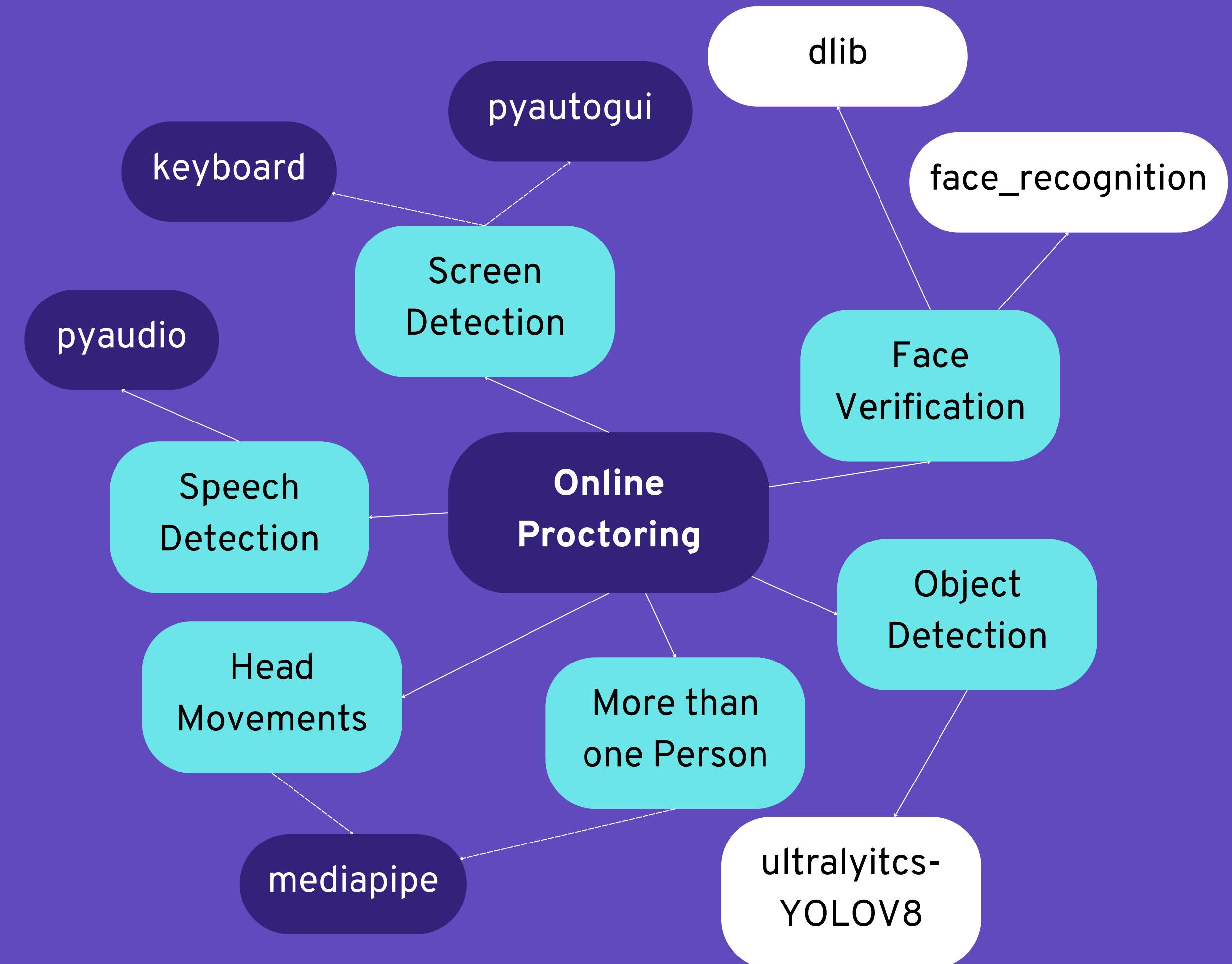


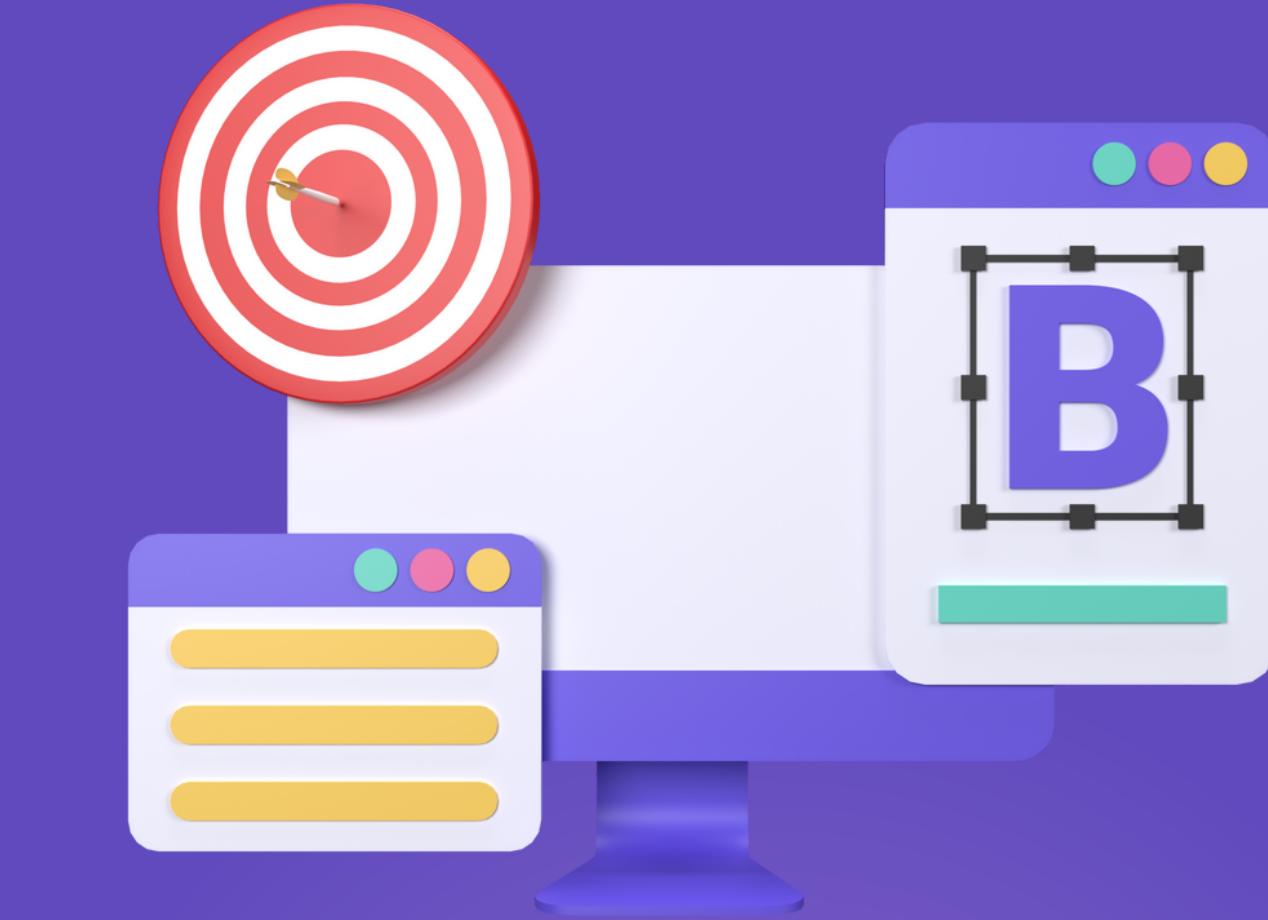
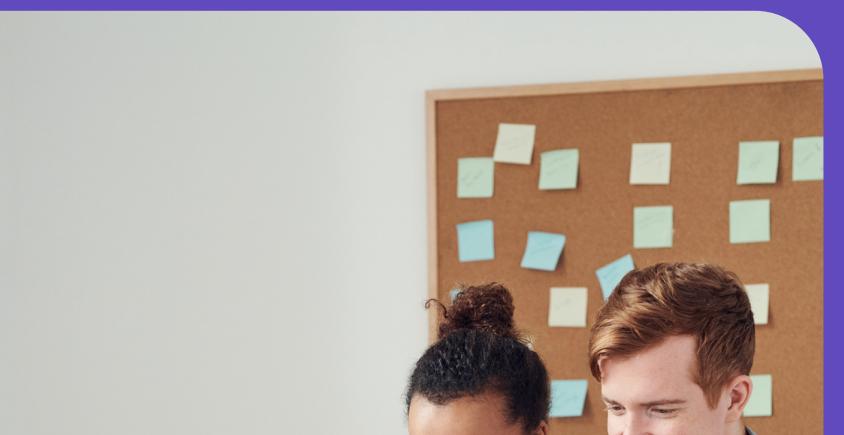
Benefits of OEP(Con'td)

- No more paperwork and physical storage saves the planet,
more secure
- Eliminates the need of a large number of examiners reducing
the workload
- Both examiners and candidates are benefited



Technologies Behind the Scenes





What's the Plan for
Future?





What we dream...

We will plan to mount our ChatGPT Whisper's Audio Tagging Module in admin's user interface. So that, admin can see what the violation in speech is about and no need to listen to the entire audio data.

We will make more attractive and user friendly interface for all the students with more detailed rules for them to follow in order to excel in their exam with no difficulties. This include which violations are taken more seriously and which not.

In future, we have planned to add an AI Chat where users can interactive with the system and clarify their problems with the workflow.

We will plan to make announcements and reminders from the admin console to all the register user's email. This will include the change of plans or technical difficulties occurred in system.

We will deploy our work with the world from application to web interfaces. We will sell our product to all the institutes who are impressed.

If it hits the milestone, we will add "Free" trial exams on many categories for users to practice before going on with their actual exams.

Conclusion

What we can provide?

Test results that are free from **Academic dishonesty** and
Integrity

What makes OEP different from traditional online proctor systems?

Incorrectly flagging of innocent behavior as cheating or miss actual cheating attempts

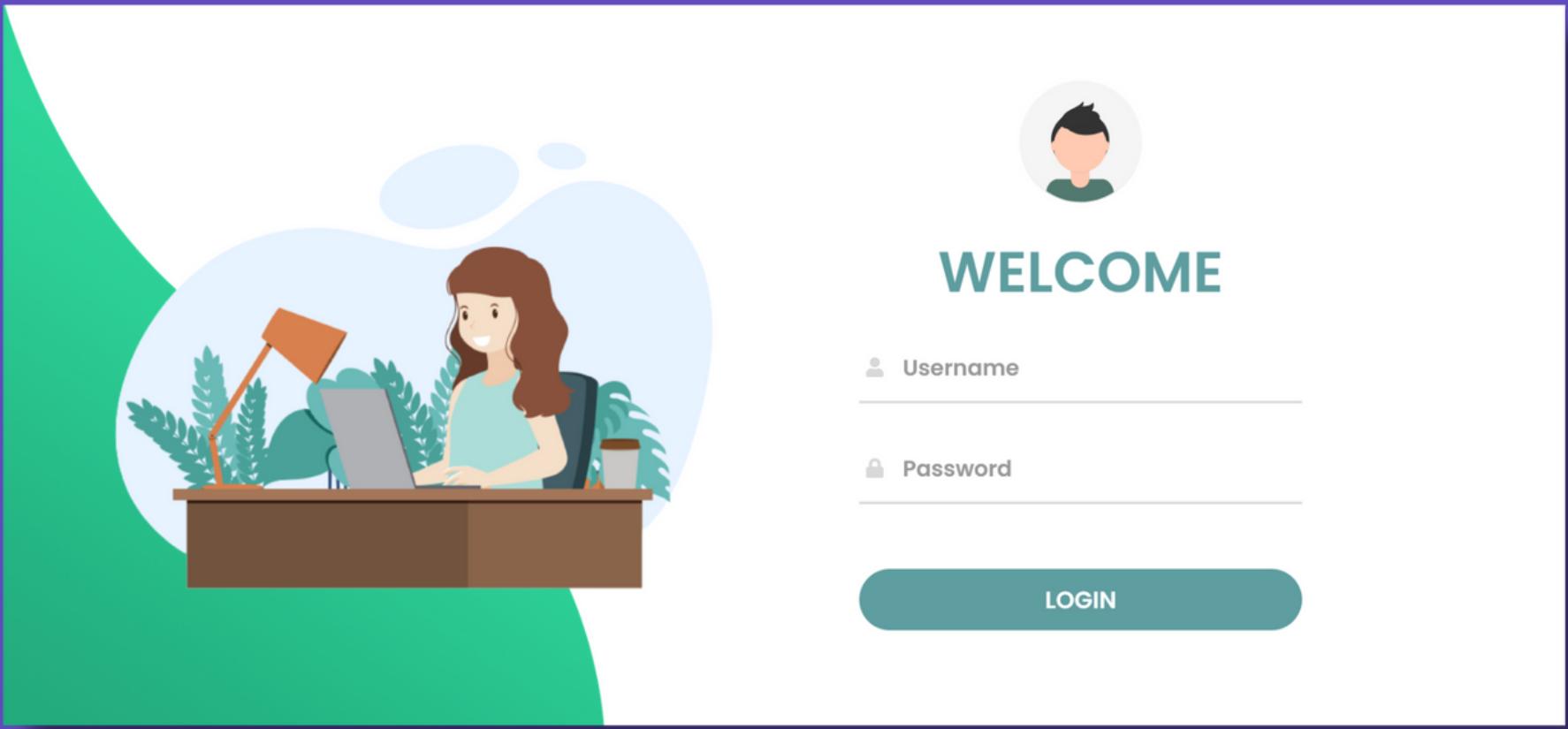
Creating an atmosphere of trust within the educational community

Free from bias and discrimination

"Balancing integrity and student well-being, we sculpt a future where education embraces technology with compassion."

Demonstration

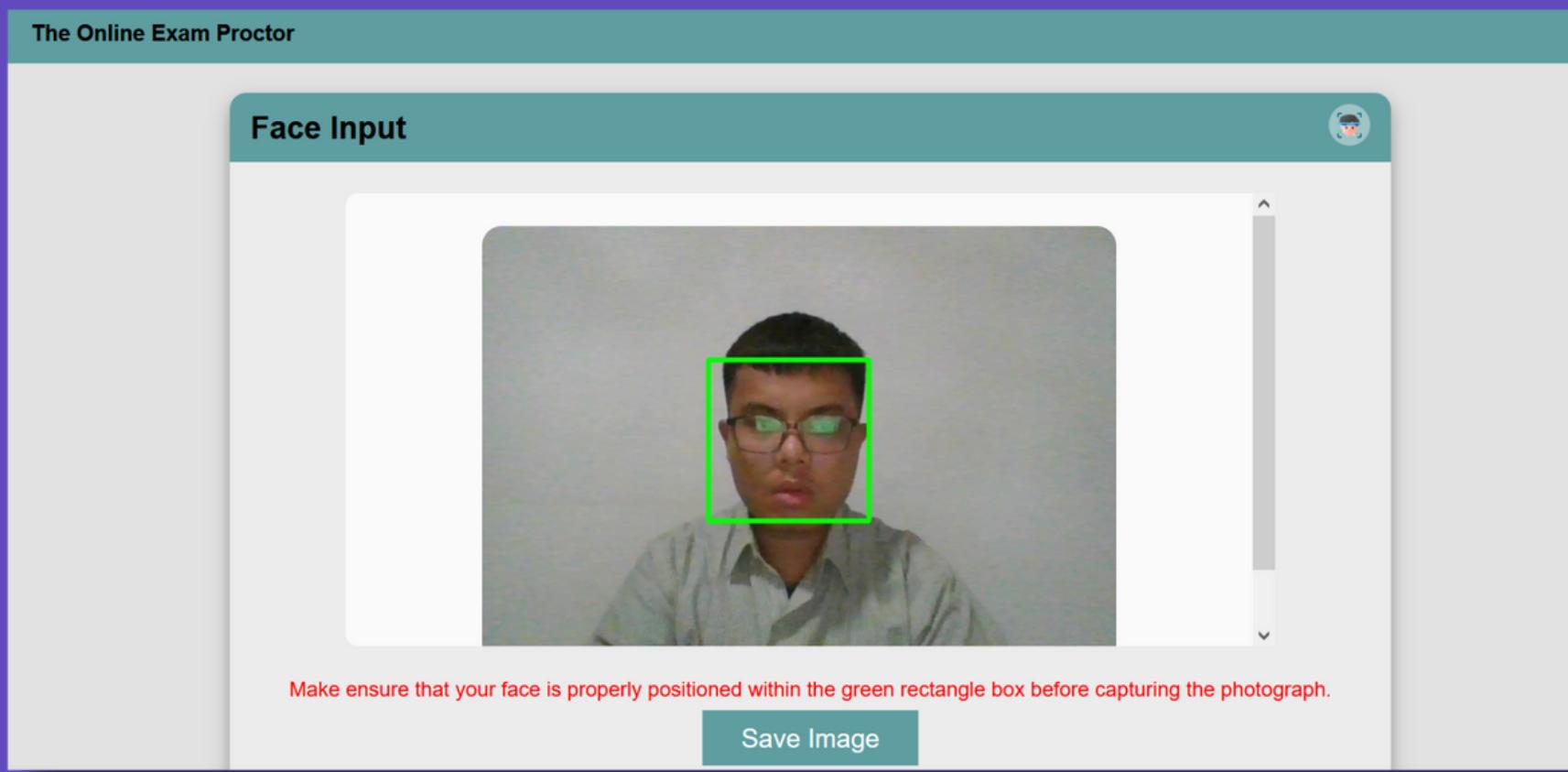




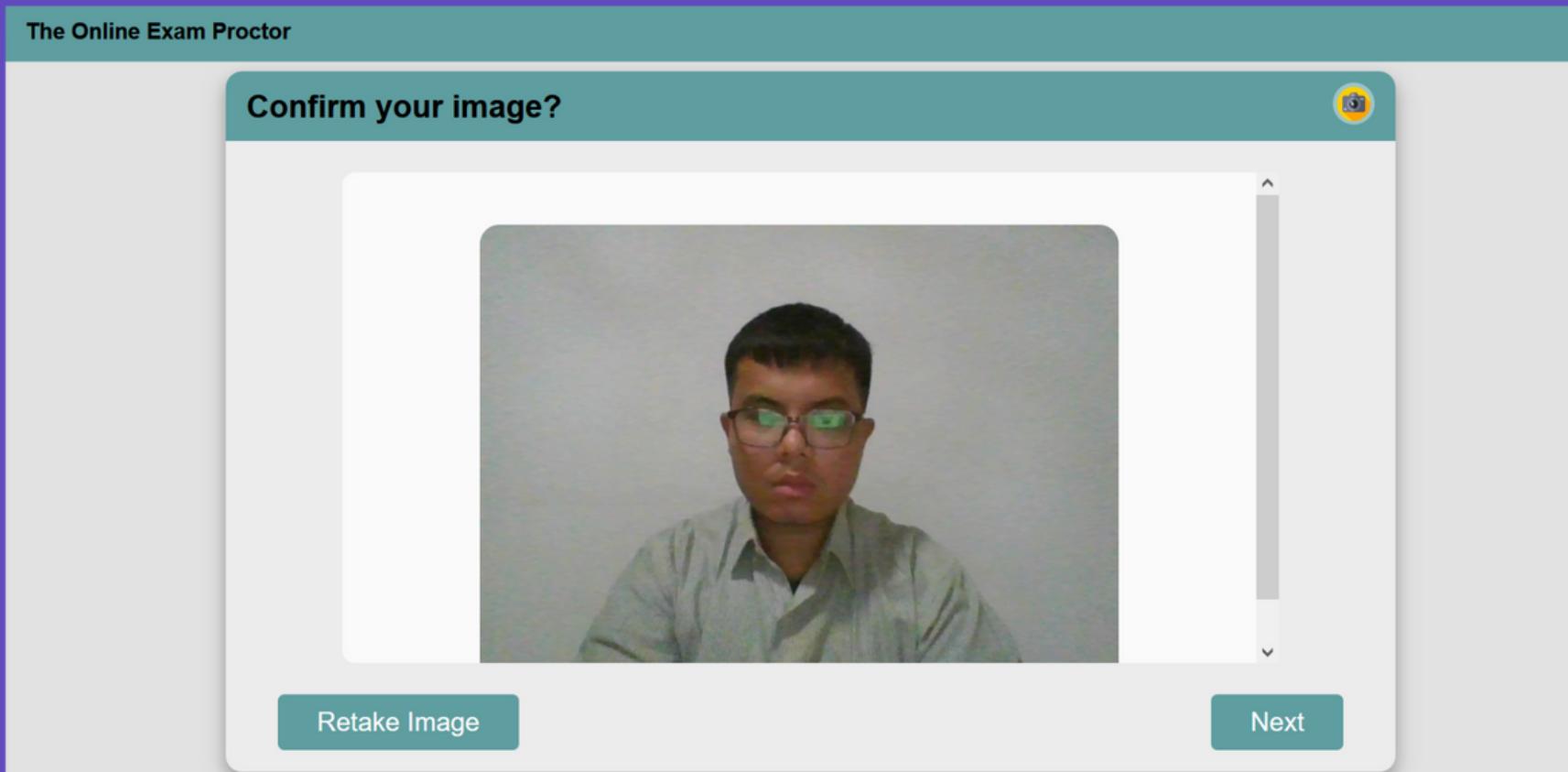
Login Page

A screenshot of a "Rules & Regulations" page. The header includes the title "Rules & Regulations" and navigation links for "Rules" and "Requirements". The main content area contains two sections: one showing a woman taking an online test on a laptop, and another showing a woman wearing a face mask with a red "X" over her face. Below each section is a descriptive text block. The entire page has a teal header bar.

Rules and Regulations Page



Face Input Page



Confirm Face Input Page

System Compatibility Check

Device	Status
Webcam :	Available
Microphone :	Available

Next »

© The Online Exam Proctor System

System Compatibility Error Page

System Compatibility Check Page



⚠️ System Compatibility Error ⚠️

Sorry, your computer is not compatible with taking the online exam. Please use a computer with a webcam and voice recorder. If you have any questions, please contact the exam administrator.

© The Online Exam Proctor System

Exam Page

The Online Exam Proctor

Exam Test

Answer the following questions within the time limit. Keep in mind that incorrect answers will penalize your score/time by 5 minutes!

[Start Quiz](#)

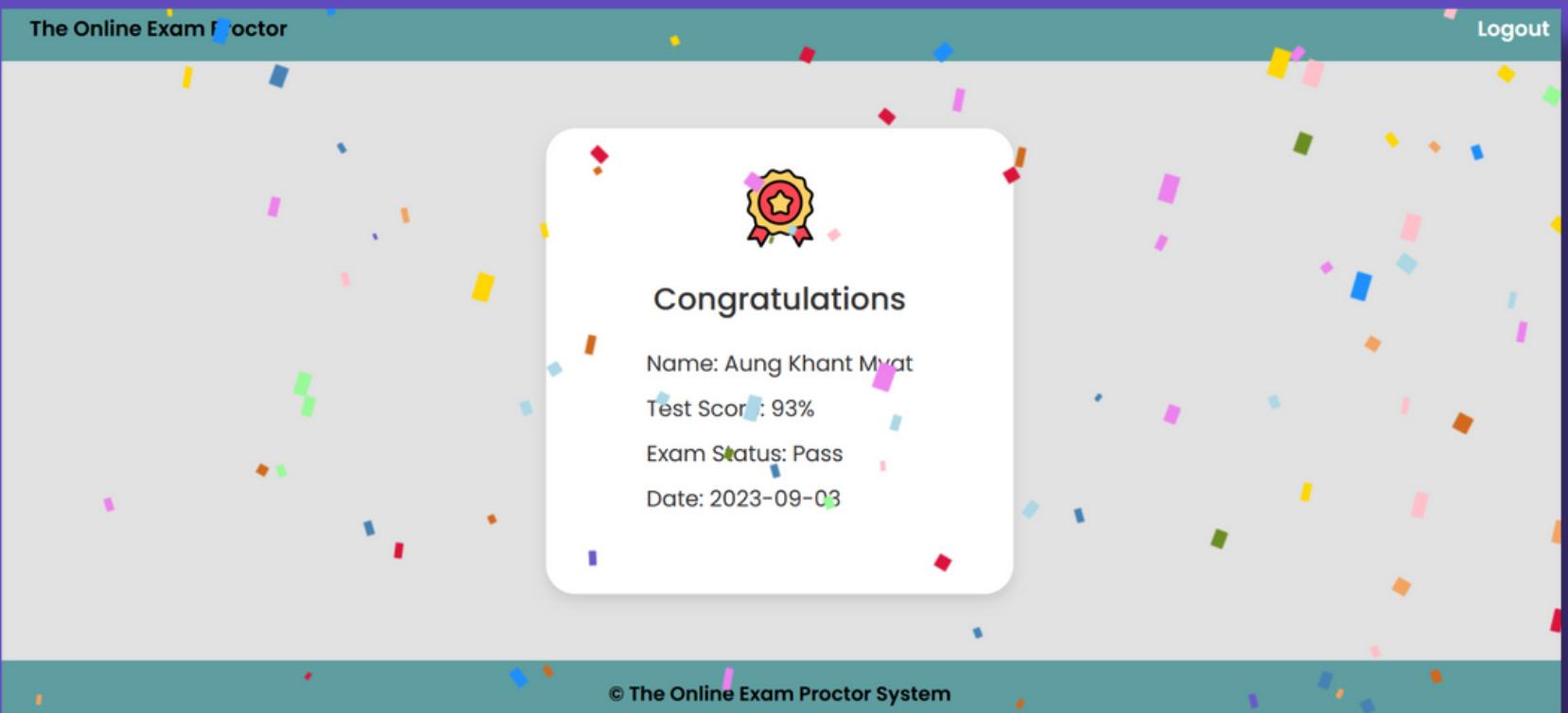
© The Online Exam Proctor System

The Online Exam Proctor Time : 291 sec

Which of these is NOT a common computer vision application?

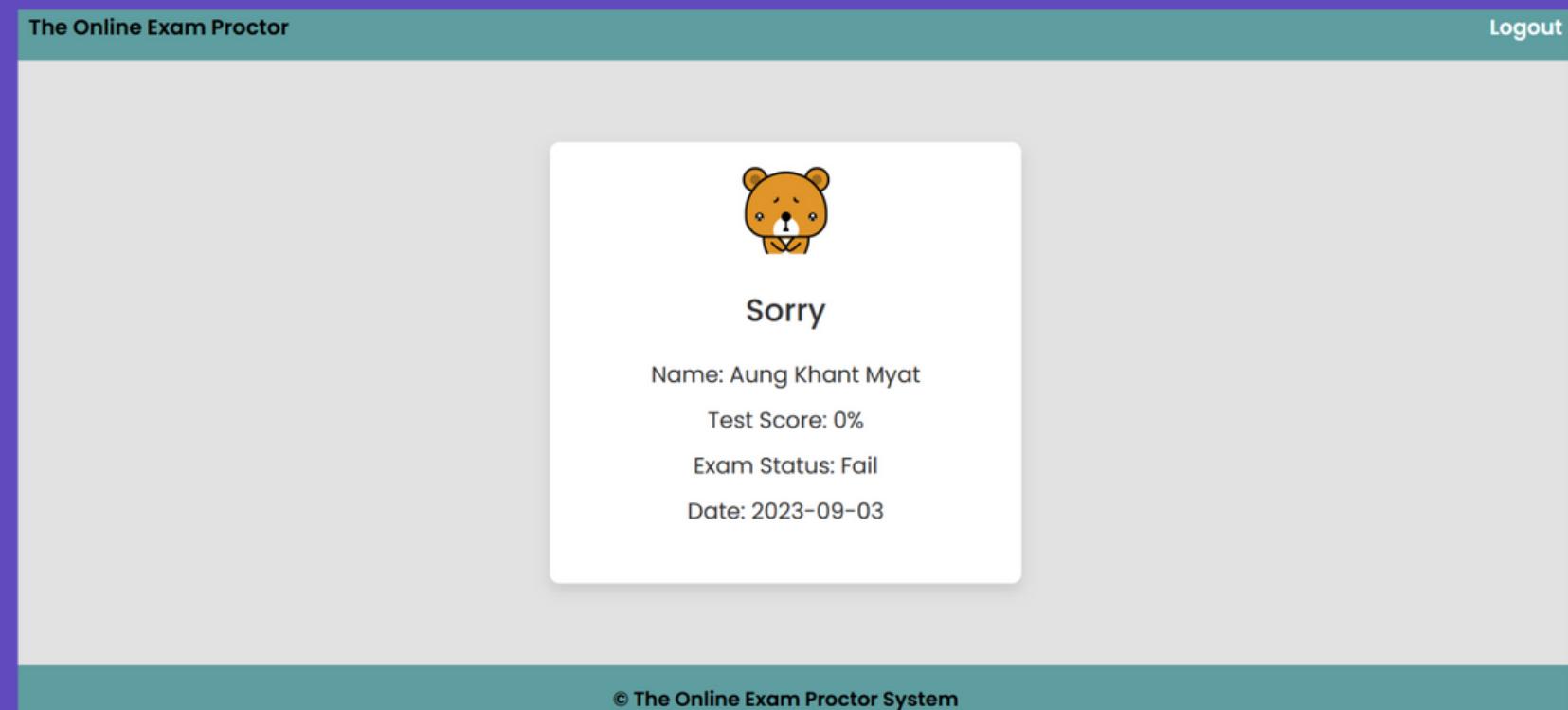
- 1. Object recognition
- 2. Image compression
- 3. Face detection
- 4. Autonomous driving

© The Online Exam Proctor System



Exam Pass Page

Exam Fail Page



Admin Dashboard The Online Exam Proctor Profile

Dashboard

Dashboard > Students

Students

Exam Results

Logout

Student Records

ID	User Name	Email	Password
1	Aung Khant Myat	akm@gmail.com	akm
4	Tun Ye Min	tym@gmail.com	tym
5	Khin Nyo Nyo Theint	knnt@gmail.com	knnt
6	Chu Khin Khin	ckk@gmail.com	ckk

Students Page

Admin Dashboard The Online Exam Proctor Profile

Update Information

Name: Tun Ye Min

Email: tym@gmail.com

Password: ***

Update Cancel

ID	User Name	Email	Password
1	Aung Khant Myat	akm@gmail.com	akm
4	Tun Ye Min	tym@gmail.com	tym
5	Khin Nyo Nyo Theint	knnt@gmail.com	knnt

Student CUD Process

Admin Dashboard The Online Exam Proctor Profile

Dashboard

Dashboard > Exam Results

Exam Result Records

Name	Date	Status	Total Mark	Details
Aung Khant Myat	2023-07-22	Pass	82	Details
Aung Myint Myat	2023-09-10	Pass	53	Details
Aung Bo Bo	2023-09-10	Fail(Cheating)	66	Details

[Students](#)

[Exam Results](#)

[Logout](#)

Exam Results Page

The Online Exam Proctor Profile



Aung Khant Myat

Exam Status: Fail(Cheating)
Trust Score: 63
Total Score: 46

Violation Records

Name	Time	Duration	Action
Looking Up	2023-09-11 00:19:27	1 seconds	Video Link
Looking Right	2023-09-11 00:19:41	1 seconds	Video Link
Common Noise is detected.	2023-09-11 00:19:47	3 seconds	Audio Link

Exam Result Details Page

Video Audio Page

Total Score : 46

Violation Record

Your audio record

Close

Name	Time
Looking Up	2023-09-11 00:19:27
Looking Right	2023-09-11 00:19:41
Common Noise	2023-09-11 00:19:47
Verified Student disappeared	2023-09-11 00:19:54
Common Noise is detected.	2023-09-11 00:19:58

The screenshot shows a code editor with several tabs open. The main tab contains Python code related to file operations and JSON processing. Below it, a terminal window displays the output of running the application, showing multiple instances of the message "Alt+Tab shortcut detected!". The status bar at the bottom indicates the file is 1/151 lines long and was last modified on 9/11/2023 at 20:45.

Violation Video Page



Thank you!