

# TEXAM – 'AI powered Testing Platform'

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## Problem Statement

"With The advent of Pandemic , The inefficiency of online testing platforms surfaced along with bulk load of miscellaneous activity during online exam."

## The Idea

"Building a Robust AI driven System, to conduct procured test, & minimizing the scope of Cheating to The Maximum Extent."

- Advanced Contact-Less System : Selection of options/ Scrolling of Paper through hand gestures Through video Stream,
- AI Monitored Video & audio stream : With AI Monitoring The Candidate, it overcomes the inefficiency of teachers to monitor multiple candidates online.
  - Penalties when candidate come closer to system or speaks something.
  - 3 penalties lead to one mark deduction.
  - The background Should be a plain wall to Limit external interface.
- Single Executable binary : Extensive Control over Multiple hardware Devices like keyboard, mouse, camera, etc.
  - Access to System Property like vendor information, prohibit the use of Virtual machine & prevent unwanted modification of system.
  - Reduces Server load by Processing AI on Client side system & increases accuracy as each system process a single candidate's Data.

Features of Client-Site AI: (These are tentative Technologies we will Use During Hackathon)

- Face-Recognition Using HaarCascade:
- Gesture Recognition :
- Advanced Audio analysis:

Features of Back-End Server:

- Use of REST API:
- Containerization of infrastructure:
- CI/CD:

Team:

- Garvit Chouhan (AI & Front-end developer)
- Harsh Singhvi (Backend developer) - Leader