

रिह

REVA HACK</> 2021

Elevator Pitch

Team Name: NonExistentPotato

Team Leader's Name:
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Project Name: Contactless Virtual Keyboard for ATM

13th November, 2021

Overview

Implementing front-end display for a contactless virtual keyboard for an ATM

Goals

No contact transactions: No contact transactions, withdrawing money is safer, less risk of infection.

All time monitoring: Requires continuous camera feed for functioning, facial detection can be done to prevent theft and/or alert authorities about suspicious behavior.

Working Methodology

- Read video (continuous images) from system camera
- Use OpenCV methods to draw information (dialogue box, keypad etc.) onto the incoming images.
- Use Mediapipe Hands module for hand detection and triggering clicks.
- Take user input and process transaction accordingly.

Specifications

- Python
- OpenCV
- Mediapipe

Limitations

- Only frontend display has been implemented, this project does not take care of backend databases or information security.

Links and other Information:

- Working video on drive: <https://drive.google.com/file/d/1V1GLBfH0e-og3FueH2PyM2hgwyT70UGS/view?usp=sharing>
- Github repository link: <https://github.com/NonExistentPotato/RevaHack2021.git>