

# Facial Recognition

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## Problem Statement

As most college students are pretty busy, and let's be honest, pretty forgetful as well, students often have some challenges with remembering their keycards. One proposed solution for this issue is the use of facial recognition to replace the use of keycards.

## Who is experiencing the problem?

All students, staff, and faculty.

## What is the Problem?

The use of key cards can often be very inconvenient for many students and faculty members. Having to stop to take a card out of either your pocket or bag every time you go to open a door can be a bit of a pain especially if you are in a hurry. Paying for food would also be easier and less time consuming as the scanned face would not only enable the person to get their food with little to no interaction, but it would also allow the server to know said person's name without asking. Another huge advantage of face scanning is the ability to easily enter and exit garages. As of right now, to enter a garage one has to contort themselves through the window of their car to scan their card. Facial recognition would allow people to roll down their window, look at the camera, and then drive into the garage.

## Where does the problem present itself?

The problem mainly presents itself anywhere a person would have to use a keycard. This could be getting into a dorm building or getting food at the Russell House.

## Why does it matter?

The use of facial recognition would make campus both safer and "faster." While the user would have to remove their mask, they would no longer have to touch or interact with the keycard box. Assuming that people are also properly socially distanced, they would not need to worry about removing a mask for a few seconds while their face is scanned.