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Team F4
18-500 Capstone

Refocus SOW - RecognEyes

The project itself has not changed, we will only compartmentalize the different parts we had given each other but in the end it should still be "completed" as a proof of concept.

Angelo - Web Application

The work for the web application has not changed. There will still be a home page, creators page, design page, and dev blog as far as the front end goes, as well as a Device Page where the user will still be able to upload pictures to our dataset in order for that person to be recognized.

The front end has not been completed yet but is well on its way after this conundrum so everything is still on schedule as far as the web application goes. For the backend, which is the dataset of pictures and relationships, as well as downloading the trained models, will be completed in a few weeks.

Mary - Hardware

There have been a few adjustments to the hardware portions of the project. Since integration with OpenCV/facial recognition is a bit more difficult with the distance among our teammates, we have decided to take on a new way of capturing images. As we planned before, we will have the camera take approximately two photos per second and store them on the raspberry pi. Then, we will upload the photos to the web app where the facial recognition detection will occur.

As for the speaker, we will no longer be making our own amplifier, as tools are unavailable. The main goal for the speaker now is to use the amazon text to voice algorithm to have words audibly said from the speaker.

Aria - Facial Recognition

There are only a few changes to be made on the facial recognition side. We plan on having a second Raspberry Pi shipped to Aria's address, and the team will continue to use the same API and tutorials we were using before this disruption. Aria and Mary will virtually work together more than they would have to set up the second Raspberry Pi and configure it for the facial recognition.

Instead of using the live camera feed to input into the model, we will use a prerecorded video and have the model recognize the people in that video. We will output the names of the people in that video in the order they were recognized/hopefully shown.