**Outlook**

In general, we are really satisfied with the result of our project. As we mentioned before, our software is more of a proof of concept that shows that this idea could actually be used to replace an analog attendance list on paper. But there are still some problems that need to be fixed first and functionalities that could be improved.

**Problems:**

First of all, there is the problem with the training data. We need a way to get enough pictures of all students in the course so that the software can accurately recognize them. A possible solution would be to make an app for students that allows them to capture training data for the database themselves. Also, there is the problem with the inaccuracy of the recognition. To fix this problem we would have to implement a better neural-network and train it with more pictures and also try to use negative training data to further improve the accuracy. Another problem-solving approach would be to normalize the pictures captured in the training mode to possibly increase the accuracy of the detection.

**Improvements:**

There are also some functionalities that could be improved in the future. One idea would be to collect more data about the students attendance. For instance, we could save the times when students were first and last recognized. That way the professor can also know if a student was late or left early. Another idea would be to automatically message the missing students to remind them that they need a medical certificate. It would also be useful to add more options to the options menu so the professor can for instance change camera settings like: resolution, framerate, brightness, contrast, etc.