**Durham College**

**Artificial Intelligence Analysis, Design and Implementation**

**Capstone Term II - AIDI 2005 – 01**

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**Facial Attendance Management System**

**Group-12 Members: -**

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**Business Requirements**

# Executive summary

The facial attendance system is designed to register student attendance via facial recognition technology. Manual entering of participation in logbooks turns into a difficult task and it additionally burns through the time so, we are intending to plan a productive module that contains face acknowledgment to deal with the participation records of students. With the help of this, we will be able to reduce human intervention in attendance. By utilizing this tool in schools and colleges will be able to register attendance swiftly and it will also reduce human errors.

# Problem Statement: -

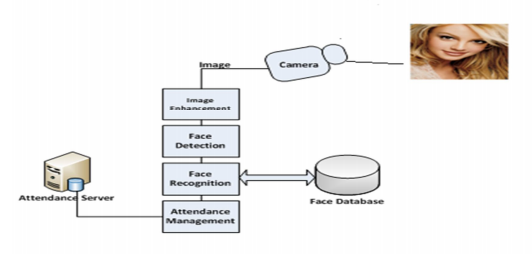
So, what made us go for this project?

It was all because of the problem arising in the manual attendance system. As the utilization of ID cards swiping and physically recording names on a sheet of paper as a strategy to follow student attendance is old and time-consuming in this modern world. In the world of machines, we humans do not want to engage with manually collecting the data than manually inserting the data, requiring more time in retrieving the data, Marinating the database manually and fear of losing the data, so we are planning to build a prototype which will help school and colleges to take attendance in easy and more efficient way.

# Rationale statement: -

If we talk about the existing framework it is a manual participation framework, which is a tedious activity and it consumes a lot of time. Recovering data from this framework is additionally an exceptionally huge and tedious undertaking. In the current circumstances, either instructor must give pen and paper to students to write their name or they must call each name separately and mark the attendance. The task after this is even more time consuming, they need to transfer all data to a computer manually. This makes a simple and easy task increasingly confused and tedious. Our objective is to minimize human interference and give a progressively fissile choice for gathering participation. With facial recognition, we will have the option for humans to work less and finish the assignment of collecting attendance quicker. Moreover, recovering information will likewise be simpler than it was in the past. Repetition will likewise be wiped out with the utilization of this software.

# Key Metrics

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Above mentioned diagram is a small prototype of our project. So, to start with, when a person will stand in the front of the camera. Camera will click a picture and latter on that picture will be processed in the software, if the clicked picture is like the picture in database attendance will be collected.

# Refine the problem statement

Taking attendance manually is a humongous task, it consumes lots of time and it is also not feasible for a larger audience. With the help of this software, we can reduce human error and make our work easier.