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**Project Name: Person Detector**

**1.0 Introduction/ Background**
**It will detect the faces of person who are entering in the company. If unknown person enters in company it will informs to admin and alert the alarm. OpenCV will use use to detect the person faces and match with already images stored in database.**

**2.0 Business Objective**
Business object is nothing it will used in company for security purposes.

**3.0 Current Situation and Problem/Opportunity Statement**
We are solving problem if person is not authenticated the gate will automatically locked.

**4.0 Critical Assumption and Constraints**
Sometimes over application fail to detect the right person Then there will will be problems. Company will assume that the CCTV camera will detect correctly.
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**5.0 Analysis of Options and Recommendation**
We have many options to detect the faces
1- Use Python like Open CV
2- Python package Tenserflow
3- And use javascript that already built in packages for face detecting.

**6.0 Preliminary Project Requirements**
1- if person enters cctv will detect and match to database.
If person is not authenticated gate will automatically locked.
The Person entery will stored in the database.
Users can see the records of past.
If users exist from the company another camera will capture exciting time and stored in the database.

**7.0 Budget Estimate and Financial Analysis**
Purchasing the high quality camera and making LAN connection Hiring the developer that know the python can do their work accurate. Estimate Budget for this Project is $14000

**8.0 Schedule Estimate**
Estimate time for this project is about 6 months.

**9.0 Potential Risks**

There are many potential risk in the project:

1- We are not writing the whole functions of Face Detecting. We have already built in function there is a change that over camera can't detect accurate person.
2- There is a chance that camera can't detect many person entering at the same time.
3- The main problem of this project is light we need batteries to active all the time. If light goes we have batteries to run this whole project