

Members:

1. Muhammad Azri bin Azmi	B031810248
2. Arif Rahimin bin Mohamed Norazman	B031810258
3. Aiman Iskandar bin Mohd Zaidi	B031810332
4. Muhammad Haziq Izzuddin bin Mohammad Junaidy	B031810323

Class: 3BITI

BITI 3533 - Artificial Intelligence Project Management

Lab 1

Project Title: iCrime

Project Manager: Muhammad Azri bin Azmi

A. Stakeholders

- Polis Diraja Malaysia (PDRM), Jabatan Imigresen Malaysia, Majlis Keselamatan Negara Malaysia (MKN)

B. Expectation

-To identify criminals and safely report to the authority.

C. Module

- 1) Criminal Databases
- 2) Criminal Face Recognition
- 3) Map Tracking

D. Project Management Framework

1) Scope management

- Scope management is a relatively important part to ensure everyone knows their respective tasks in this project. In this project, employees need to ensure that this system can help our stakeholders to control national security efficiently.

2) Time management

- Time management is also important to ensure all work within the stipulated time. This is to avoid missing the deadline to complete this project. We need to set the start date, end date, and timeframe for each task based on weightage in the project discussion session. We can use the Gantt chart to schedule all available work with its own timeline.

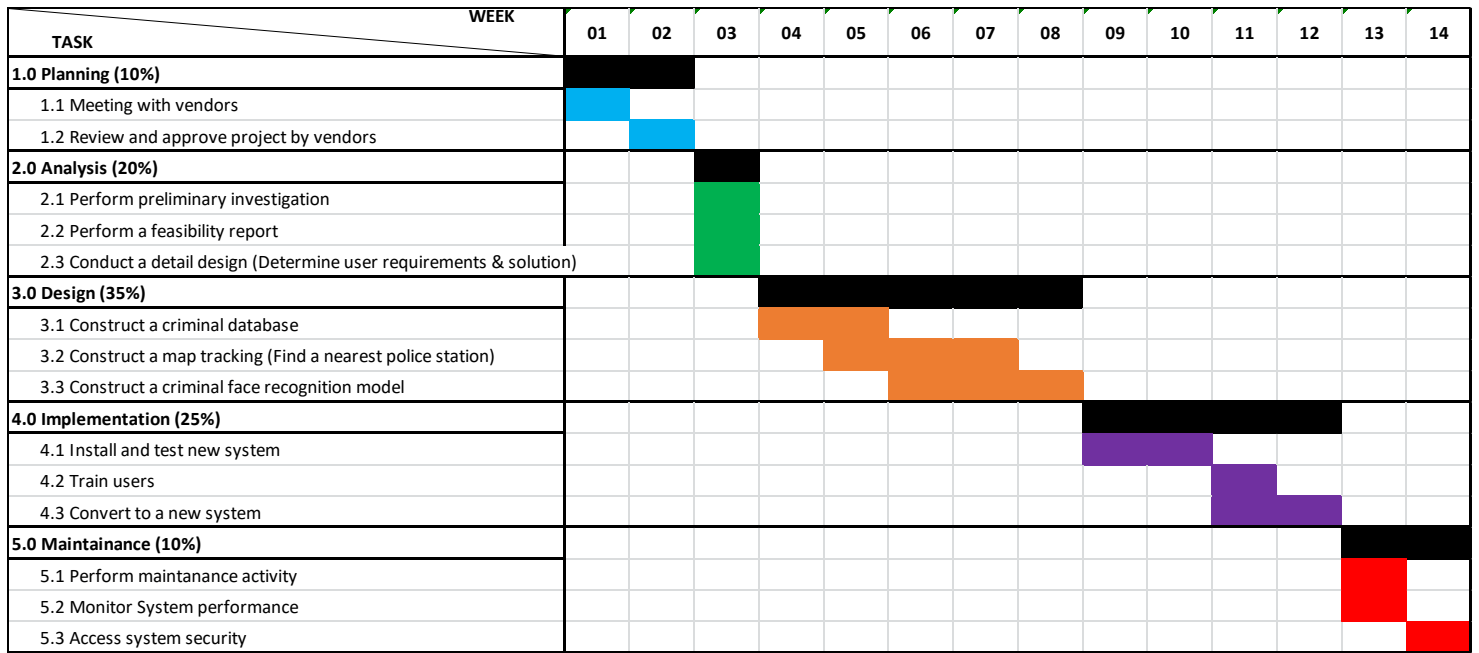


Figure 1: Gantt chart.

3) Cost management

Module	Cost (RM)
Criminal Database - Server - Data Engineer	500K
Criminal Face Recognition - Camera - Software - Labour	1.20M
Map Tracking - GPS	120K
Total	1.64M

Table 1: List of cost of each module.

4) Quality management

- Data were used from PDRM database conjoined with Jabatan Imigresen Malaysia. More than 80,000 individuals have their ID being marked and their face has been captured in the database. Their face will be the prime feature for the system to recognize.

- To ensure our system has smooth operation, cameras will be placed based on the criminal ratio of each location as Figure 2 below.

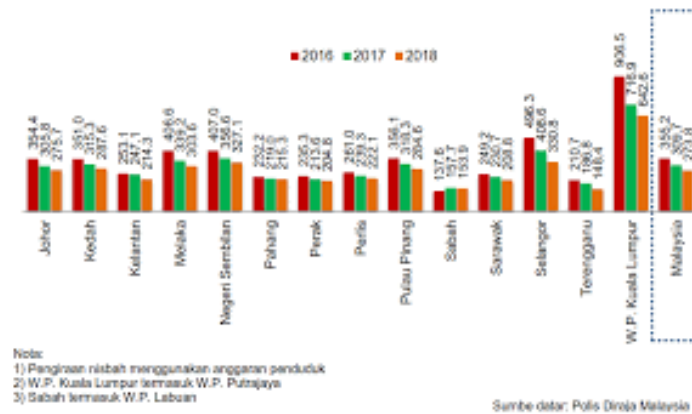


Figure 2

5) Human Resource management

- Labour
- Organizational chart

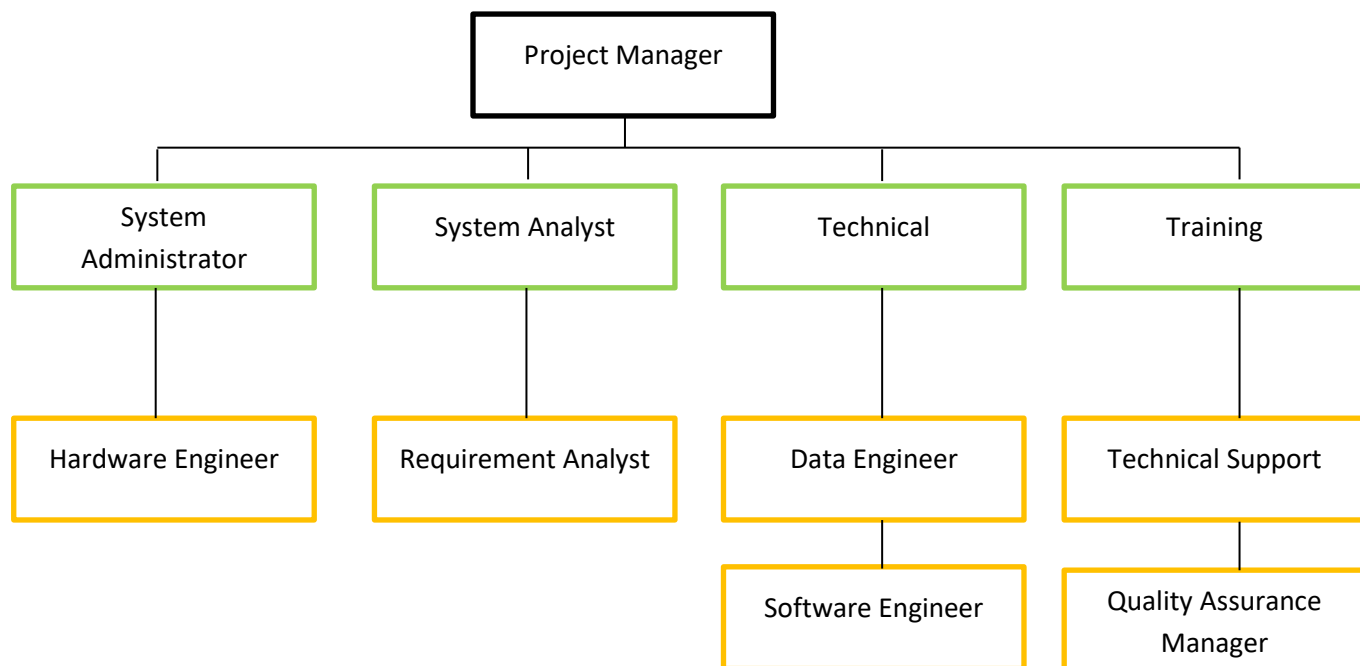


Figure 3: Organizational Chart

- With this chart, the project manager can divided the tasks accordingly.

6) Communications management

- Create the communication plans.
- Asking questions and talking to people especially to stakeholders.
- Map out the project plan to get an overview.
- Prepare the status report of the project.

7) Risk management

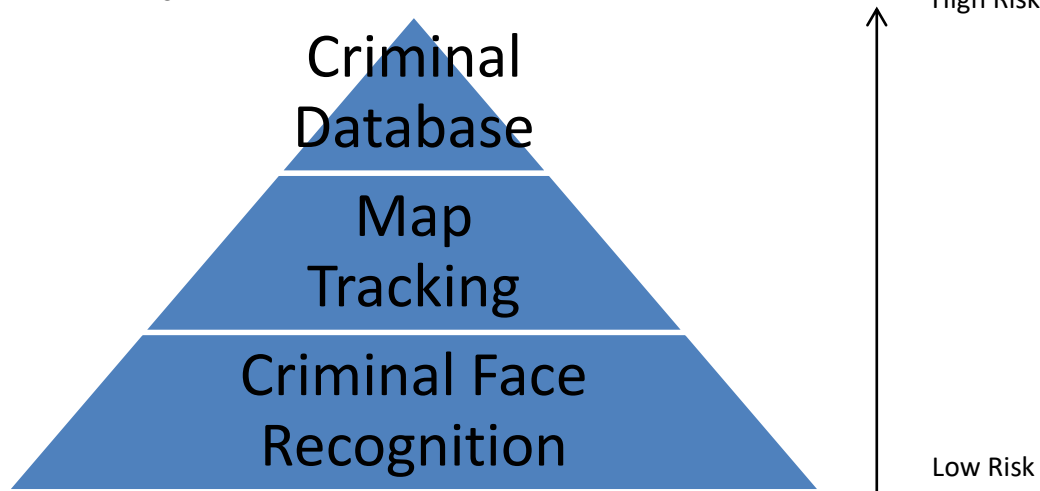


Figure 4: Risk Hierarchy

- Database is high risk because if we inserting the wrong data, then we can't trace them accurately.
- Even though, face recognition is low risk but it is more complex to make it work. Thanks to Artificial Intelligence and Machine Learning technologies, it can operate with the highest safety and reliability standards.
- Based on Figure 4, risk that occurred can be minimized by assigning people that suited to deal with a particular risk and monitor it.
- Always listed risk occurred in the status report to encourage a discussion between team members so they can provide the new input and solution.

8) Procurement management

- Procurement management is the technique to manage and optimize the company's spends. In include requisitioning, ordering, inspection, and reconciliation. Select the best supplier with the available criteria, lower price, and working history. This will reduce the company's budget and avoid being cheated by suppliers. In terms of hardware or software you want to use, instead of buying an expensive graphic card (NVIDIA Quadro), companies can use cloud computing such as ECS2 to save money. Other than that, we will only hire highly skilled workers and have a deep interest in this project.

9) Tools and techniques

- In this system, we will use AI techniques i.e. face recognition to identify the criminals wanted by the police. This system will be placed on several cameras in the city. After the camera detects the criminals, the nearest police station will get the location of the criminals and the fastest route to get there.

Microsoft Word - To create a text document and report about the project.

Microsoft Excel - To calculate and saved all the values about the project. To produce project Gantt chart.

Microsoft Project - To manage the project schedule, tracking progress, managing the budget and analyzing workloads.

Microsoft PowerPoint - To present our project or progress to the client.