



FACULTY OF INFORMATION & COMMUNICATION TECHNOLOGY

SEMESTER SESSION 2021/2022

BITI3533 ARTIFICIAL INTELLIGENCE PROJECT MANAGEMENT



COMPANY NAME : SUNSHINE AI TECH SDN BHD

PROJECT TITLE : AI DETECTING SECURITY INTRUSION

FINAL REPORT

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1.0 Defining Project

1.1 Project Summary

a) Customer

Ever Technologies

b) Project Name

AI Detecting Security Intrusion

c) Team Members

- Anis Amiera Binti Zamrin Hasbullah (Project Manager)
- Fairuz Diana Binti Hamzah (Programmer)
- Norsaza Amalia Binti Mohd Saiful Abidin (System Designer)

d) Objective

- Provides a prompt notice for the response force to a sensor.
- Require a high level of security to ensure safe and trusted communication of information.
- To reduce risk, identify error, optimize network use, provide insight into threat levels, and change user behavior.

2.0 Planning of Project

2.1 Project Management Life-Cycle

a) WBS

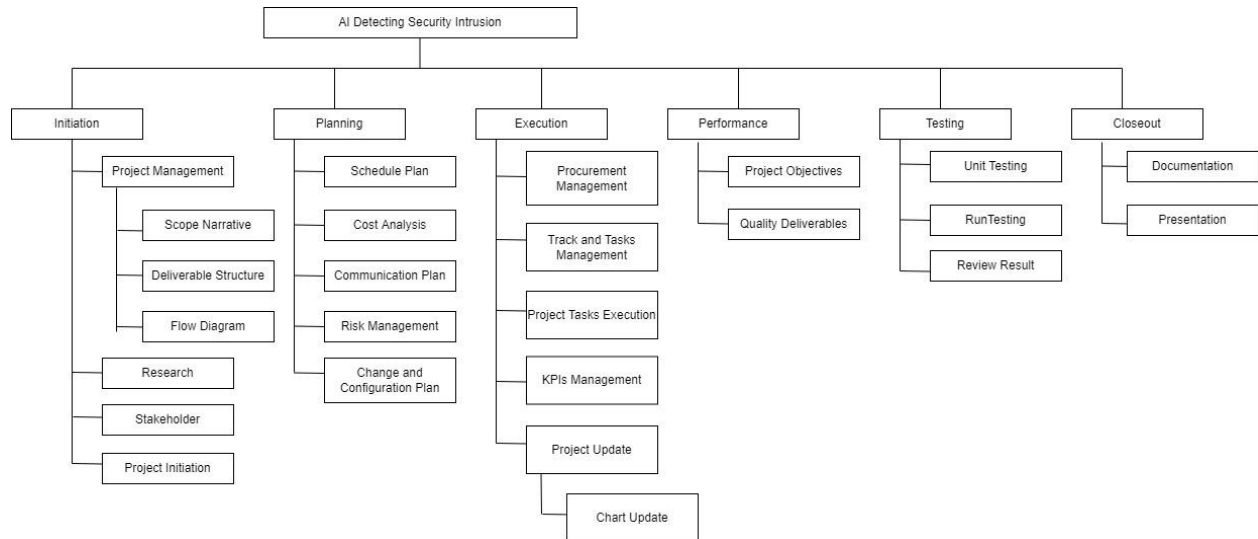


Figure 2.1 (a) WBS

b) Gantt Chart

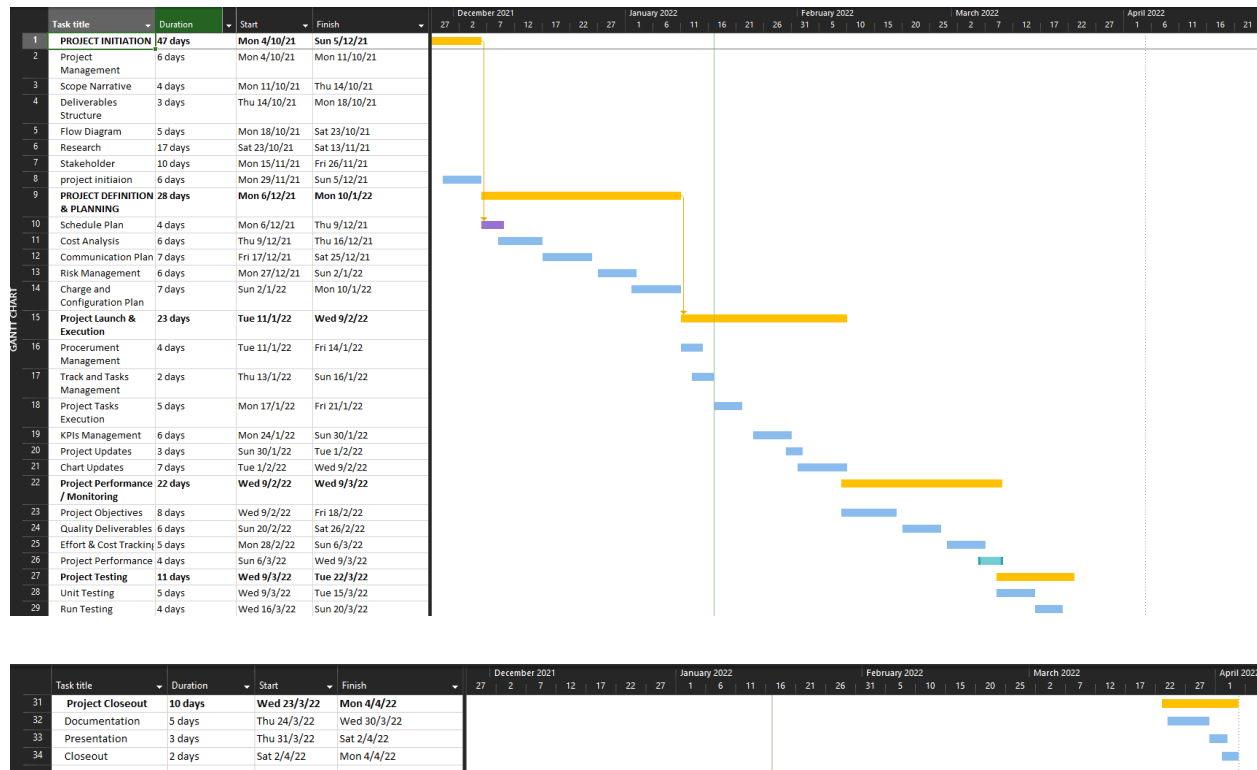


Figure 2.1 (b) Gantt Chart

2.2 Risk Identification Chart

Table 2.2 Risk Identification

Measure of Success	Expectations	Guidelines
Time	Need to be delivered on time.	Stakeholders need to be alert if any changes of timeline.
Cost	Rate cost management as one of their highest priorities on a project, so evaluating how the project is performing financially is crucial.	Needs to be limited, if additional financial is needed the project manager must inform the sponsor.
Quality	Review can evaluate whether what you are doing meets the standards set out in your quality plans.	Standards of the quality have to be followed.

2.3 Responsibility Assignment Matrices (RAM)

2.3.1 Responsibility Assignment Matrices (RAM) Table

[illegible]

Figure 2.3.1 RAM Table

2.3.2 Roles and Responsibility

a) Project Manager

Project managers are responsible for planning, organizing, and directing the completion of specific projects for an organization while ensuring these projects are on time, on budget, and within scope. By overseeing complex projects from inception to completion, project managers have the potential to shape an organization's trajectory, helping to reduce costs, maximize company efficiencies, and increase revenue. The exact duties of a project manager will depend on their company, organization, and the types of projects that a Project Manager is tasked with overseeing. But across the board, all project managers share responsibilities across what's commonly referred to as the "project life cycle," which consists of five phases (or processes).

- Initiating
- Planning
- Executing
- Monitoring and Controlling
- Closing

b) System Designer

System Designer will assist in establishing the development of the project. They will assemble the suite of technical resources that requires, and identify any custom software that needs. System Designers take on a role similar to a computer hardware engineer, yet their role can also be strong on creativity and problem-solving duties. They may be required to track character progression from concept to implementation, defining crafting elements, skill trees and level tables. The responsibilities may include assembling all software and hardware required, Produce prototypes, oversee testing and implement changes and create customized software.

c) Programmer

Generally responsible for the development, design and implementation of new or modified software products or ongoing business projects. A Computer Programmer, or Systems Programmer, writes code to help software applications operate more efficiently. Their duties include designing and updating software solutions, writing and updating source-code and managing various operating systems. A programmer also may specialize in one or more computing fields, like database, security or software/firmware/mobile/Web development. These individuals are instrumental to the development of computer technology and the field of computing. After completing a program design, a programmer converts the design into a series of codes or instructions that the computer can run and execute, making use of a specific programming language and required platforms.

2.4 Project Planning Summary

2.4.1 Modules/Components

Table 2.4.1 Module and Components for project

Item	Justification
Camera Sensor	Intrusion detection monitors an area by detecting and surveying movement to capture events.
Motion Detector	Detect moving objects, specifically people. Perform well indoors/outdoors depending on type.
Key Pads	The main customer interface for arming/disarming the intrusion system.
Support Services	Provided to or on behalf of a person in the areas of personal care and assistance and property maintenance.
Internet services	To do some research papers on this project.

2.4.2 Budget

PROJECT TITLE	AI Detecting Security Intrusion								
PROJECT MANAGER	ANIS AMIERA BINTI ZAMRIN HASBULLAH								
GROUP NAME	FAIRUZ DIANA BINTI HAMZAH , NORS AZA AMALIA BINTI MOHD SAIFUL ABIDIN								
COMPANY NAME	SUNSHINE AI TECH SDN.BHD.								
DATE	1/11/2021								
Caculate Net Present Value (NPV)									
		2020	2021	2022	2023	2024	2025	2026	2027
		Actuals	Plan	Plan	Plan	Plan	Plan	Plan	Plan
Cash Flows	total	\$ (1,000,000)	\$172,000	\$223,600	\$234,780	\$269,997	\$313,197	\$353,912	\$2,406,999
Discounted Rate (Risk)		10.0%							
NPV (Manual)	\$	2,331,378	\$ 156,364	\$ 184,793	\$ 176,394	\$ 184,412	\$ 194,470	\$ 199,774	\$ 1,235,171
NPV (Formula)	\$	2,331,378							
The higher the NPV, the better means the return from a project exceeds the cost of capital	\$	1,331,378							
		57%							

Figure 2.4.2 Budget for Project

b) Design Projects

[illegible]

Figure 3.1 (b) Budget for Design Project

[illegible]

Figure 3.1 (c) Budget for Restoration

d) Cumulative Totals

	OVERALL PROJECT	GRANT REQUEST	PRISM MATCH	MATCH NOT IN PRISM	Budget Check
	Cost	Amount	Amount	Amount	
<u>Sheet #1 Acquisition</u>					
Property Costs	\$ 21,400	\$ 21,400	\$ -	\$ -	0
Incidental Costs	\$ 17,210	\$ 17,210	\$ -	\$ -	0
Administrative Costs	\$ 10,000	\$ 10,000	\$ -	\$ -	0
Indirect Costs	\$ -	\$ -	\$ -	\$ -	
STotal	\$ 48,610	\$ 48,610	\$ -	\$ -	0
<u>Sheet #2 Design</u>					
Design Costs	\$ 34,700	\$ 34,700	\$ -	\$ -	
Indirect Costs	\$ -	\$ -	\$ -	\$ -	
STotal	\$ 34,700	\$ 34,700	\$ -	\$ -	0
<u>Sheet #3 Restoration</u>					
Construction Costs	\$ 42,150	\$ 42,150	\$ -	\$ -	0
AA&E	\$ 43,050	\$ -	\$ -	\$ -	43,050
Indirect Costs	\$ -	\$ -	\$ -	\$ -	
STotal	\$ 85,200	\$ 42,150	\$ -	\$ -	43,050
GTOTAL	\$ 168,510	\$ 125,460	\$ -	\$ -	43,050
Total PRISM Project Budget \$ 125,460					

Figure 3.1 (d) Budget for Cumulative Total

3.2 Milestone Time Management

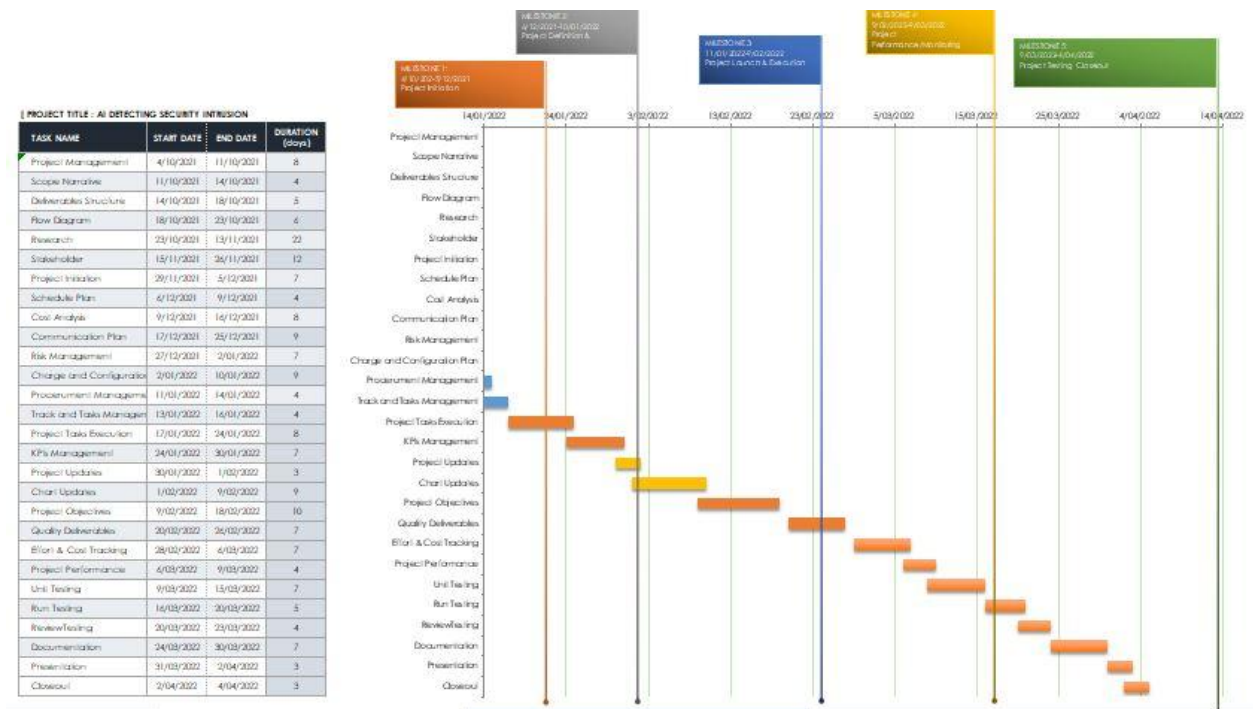


Figure 3.2 Milestone Time management

4.0 Executing the Project

4.1 Design/Diagrams

a) Flow Chart

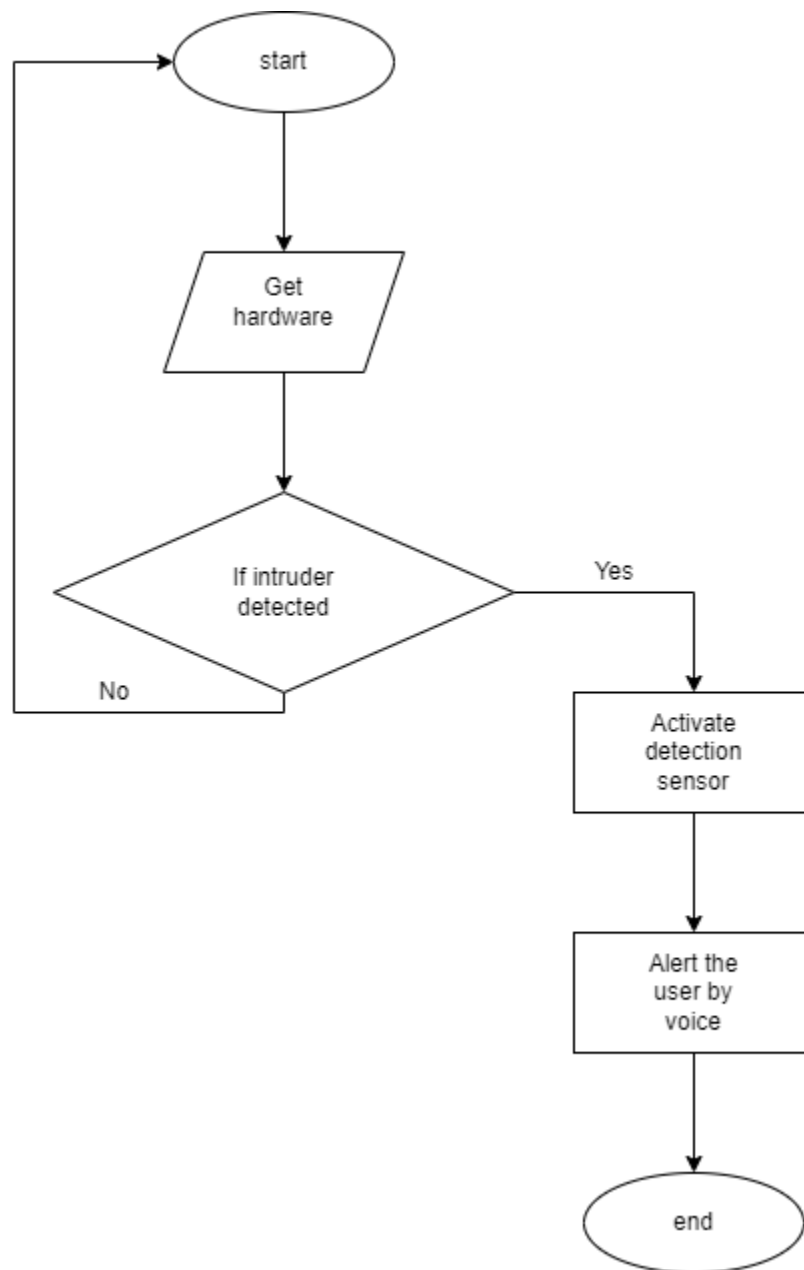


Figure 4.1 (a) Flowchart

b) AI Detecting Security Intrusion Algorithms

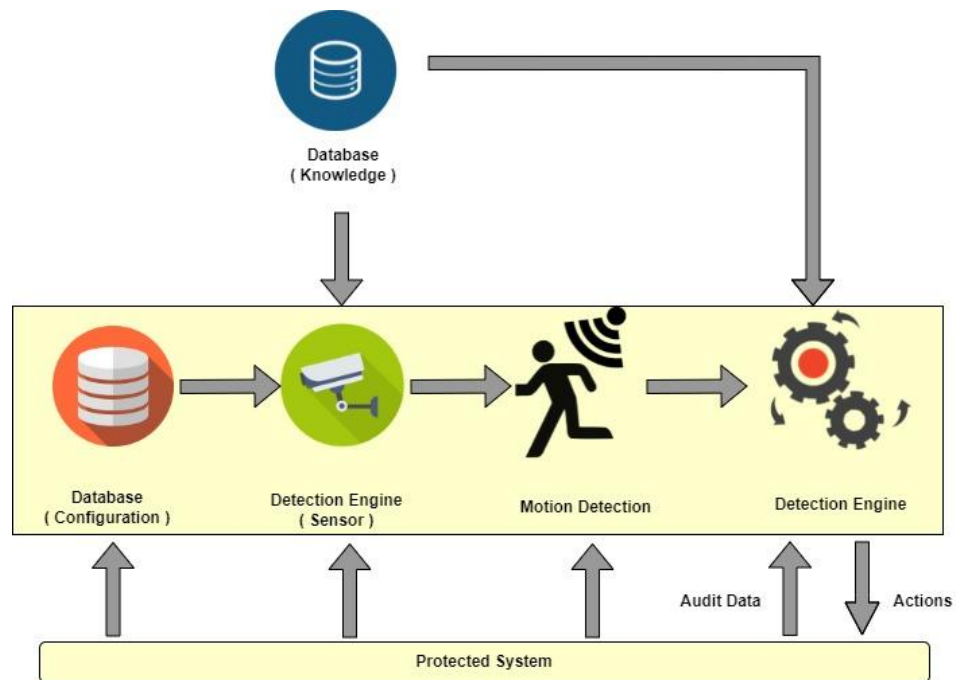


Figure 4.1 (b) AI Detecting Security Intrusion Algorithms

4.2 Coding

```
1 import cv2
2 import pyttsx3
3 import threading
4 import datetime
5 import time
6
7 # This function plays the audio message
8 def thread_voice_alert(engine):
9     engine.say("intruder Detected")
10    engine.runAndWait()
11
12 baseline_image=None
13 status_list=[None,None]
14 video=cv2.VideoCapture(0)
15
16 #Setting parameters for voice
17 engine = pyttsx3.init()
18 voices = engine.getProperty('voices')
19 engine.setProperty('voice', voices[1].id)
20 engine.setProperty('rate', 150)
21 engine.say("intruder Detected")
```

Figure 4.2 (c) coding

4.3 Output

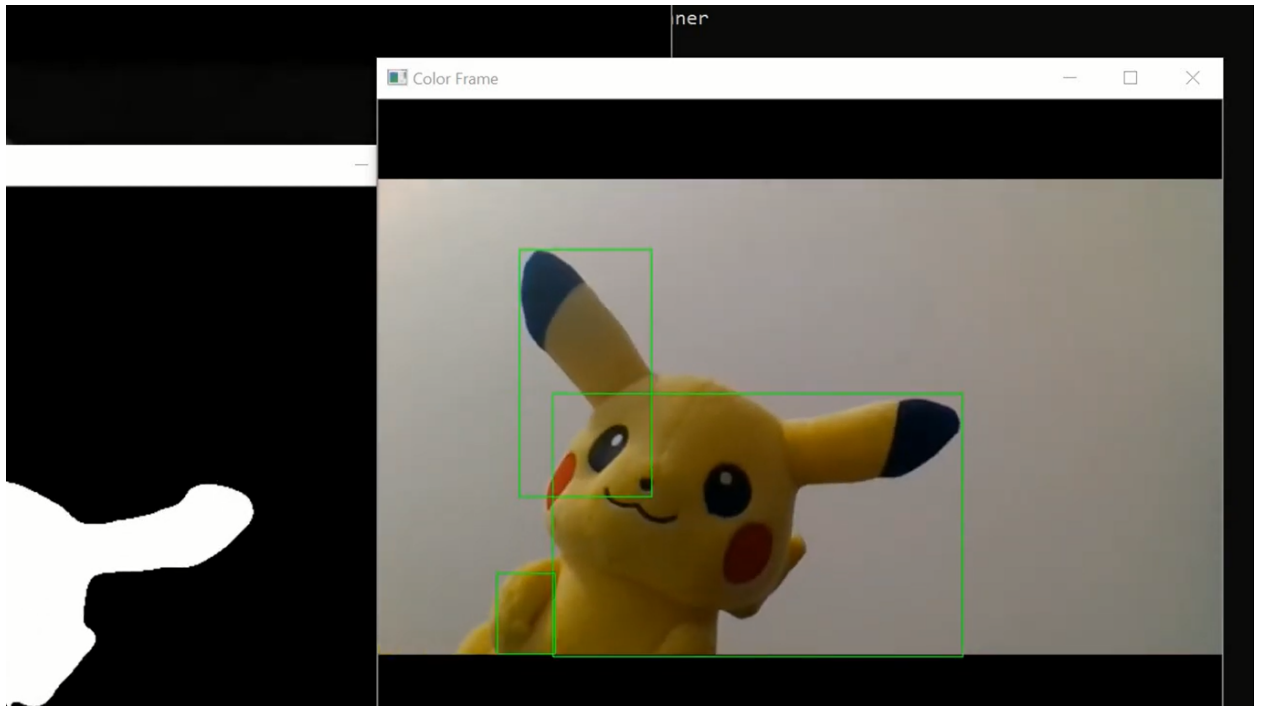


Figure 4.3 Output

The figure above shows the output from our source code. If an intruder is detected it will activate the detection sensor. The sensor will detect the intruder and alert the user by voice “intruder alert”.

5.0 Completing the Project

5.1 Acceptance/Project Completion Form Sign-Off

Customer Acceptance/Project Completion Form 10 January, 2022

Project Name : AI Detecting Security Intrusion

Project Manager : Anis Amiera Binti Zamrin Hasbullah

I (We), the undersigned, acknowledge and accept delivery of the work completed for this project on behalf of our organization. My (Our) signature's attest to my (our) agreement this the project has been completed. No further work should be done on this project.

Name	Title	Signature	Date
Fairuz Diana Binti Hamzah	Programmer	<i>Fairuz Diana</i>	10 January 2022
Norsaza Amalia Binti Mohd Saiful Abidin	System Designer	<i>Amasaza</i>	10 January 2022

1. Was this project completed to your justification? Yes / No

Yes.

2. Please provide the main reason for satisfaction or dissatisfaction with this project.

The main satisfaction for completing this project is the quality management plan deliverables are exceptionally strong. Moreover, the project plan for updated based on the feedback received from the team leader and develop for training plan this The project is interesting.

3. Please provide suggestion on how our organization be improve t the project delivery capability in the future.

For my suggestions, to improve the project delivery capability in the future is to communicate more effectively, more efficiently with your work and get the fast movements in your work. Focus on the integration of projects within the organization to have better integration and strategic alignment.

5.2 Lessons Learned Document

Lesson-Learned Report January 10, 2022	
Project Name	: AI Detecting Security Intrusion
Project Sponsor	: Wafi Ismail
Project Manager	: Anis Amiera Binti Zamrin Hasbullah
Project Dates	: 4/10/2021 - 14/1/2021
Final Report	: RM125,460
<p>1. Did the project meet scope,time and cost goals? Yes. This project has met the scope, time and goals as planned but we still need more people to take the train in this course so that there will be more people with expertise on this course. To meet these goals we need around RM 20,000 more to achieve it.</p> <p>2. What was the success criteria listed in the project in the scope statement? This project will be successful if we can train at least 300 people in one year. The cost of the project will be reduced after one and half years after the project is successful and completed.</p> <p>3. Reflect on whether or not you met the project success criteria. The project has good team support which can deliver high quality of work. As a project manager, I need to have a particular set of skills to conduct the team. The skills will include both soft and hard skills. The project team member needs to give full commitment to help the project achieve the goals. Then we need more new trainers to meet project success criteria.</p> <p>4. What were the main lessons your team learned from this project? The main lesson that we learned from this project is that having good communication is the key success of the project. We had WBS for each of the members with stakeholders which is very important. It is so important for a project manager to manage her/his teams to achieve the goal of the project and we have a very good project manager that can lead us very well. Sunshine Ai Tech Sdn Bhd is a company that is moving forward to Web-based training, so the strong communication is needed and very crucial.</p>	

6.0 Project Presentation

YouTube Link: <https://www.youtube.com/watch?v=ZBddkhsxw>