Meeting Date:	Meeting No.:
29.11.2024	2

Meeting Mode:	
Face-to-Face	

Project ID:	Project Type:
FYP01-DS-T2430-0144	Research-based

Project Title :	
Plant Disease Detection using Deep Learning	

Student ID :	Student Name:
1211104786	Nicholas Tan Zhi Xuan

Student Programme and Specialisation:	
Computer Science with Specialization in Data Science	

Supervisor Name:	Co-Supervisor Name: (if applicable)
Dr. Pee Chih Yang	Dr. Wong Lai Kuan

Collaborating Company: (if applicable)	Company Supervisor Name: (if applicable)

1. WORK DONE
[Please write the details of the work done, after the last meeting]

Tasks:
Learning and Based Research /
~~Problem Formulation and Project Planning /~~
~~Background Study or Literature Review /~~
~~Requirement Analysis or Theoretical Framework /~~
~~Design or Research Methodology /~~
~~Prototype Development or Proof of Concept /~~
~~Draft Report Completion~~

(Please strike out the tasks, which are not applicable)

Details (in point form):

1. Found a new cassava dataset with clean images and less noises background
2. Build a simple CNN sequential classification model using TensorFlow Keras.

2. WORK TO BE DONE
[Please write the details of the work to be done, before the next meeting]

Tasks:
Learning and Based Research /
~~Problem Formulation and Project Planning /~~
~~Background Study or Literature Review /~~
~~Requirement Analysis or Theoretical Framework /~~
~~Design or Research Methodology /~~
~~Prototype Development or Proof of Concept/ Draft Report Completion~~

(Please strike out the tasks, which are not applicable)

Details (in point form):

1. Explore more object detection models and classification models
   - Recommended object detection model (YOLO v8 / YOLO v11)
2. Try to find a way without using annotated images to train the object detection model

3. PROBLEMS ENCOUNTERED AND SOLUTIONS

[Please write the details of the problems encountered, after the last meeting and provide the solutions / plan for the solutions]

Problem:

- Tensorflow not detecting GPU problem
- Dataset only 3 disease classes
- Dataset size too small

Solution:

- The GPU not detected solutions, https://www.tensorflow.org/install/pip#windows-native
- Use the dataset for object detection training only

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4. COMMENTS (Supervisor / Co-Supervisor / Company Supervisor)

OK

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DR. PEE CHIH YANG
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……………………………   …………………………...
Supervisor's Signature   Student's Signature

…………………………..   ………………………………
Co-Supervisor's Signature   Company Supervisor's Signature
(if applicable)   **(if applicable)**

IMPORTANT NOTES TO STUDENTS:

1. Items 1 – 3 are to be completed by the students prior to the meeting. Item 4 is to be completed by the supervisor / co-supervisor / company supervisor.

2. Student has to upload the soft copies of the meeting logs in eBwise and also attach them along with interim (FYP1) report.
   Minimum requirement is SIX Meeting Logs (Period: Week 3 to Week 12). Students can have fortnightly meetings with the supervisor.

3. Log sheets provide the basis for evaluating the General Effort (Project Management, Attitude, and Technical Competency) of the student, by the supervisor and also for checking the attendance requirement of the student, by the FYP Committee.

   This also provide the student with feedback from the supervisor / co-supervisor / company supervisor on the tasks done and provide the plan for the upcoming tasks. This can provide the motivation for the student to give consistent and efficient effort throughout the period of FYP.

4. Student who fails to meet the minimum requirement (six nos.) of log sheets will not be allowed to submit FYP report.