

Sri Lanka Institute of Information Technology



Research Project
IT4010

B.Sc. (Hons) in Information
Technology

Status Document

Group ID: 2023-24-074

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Specialization: Data Science

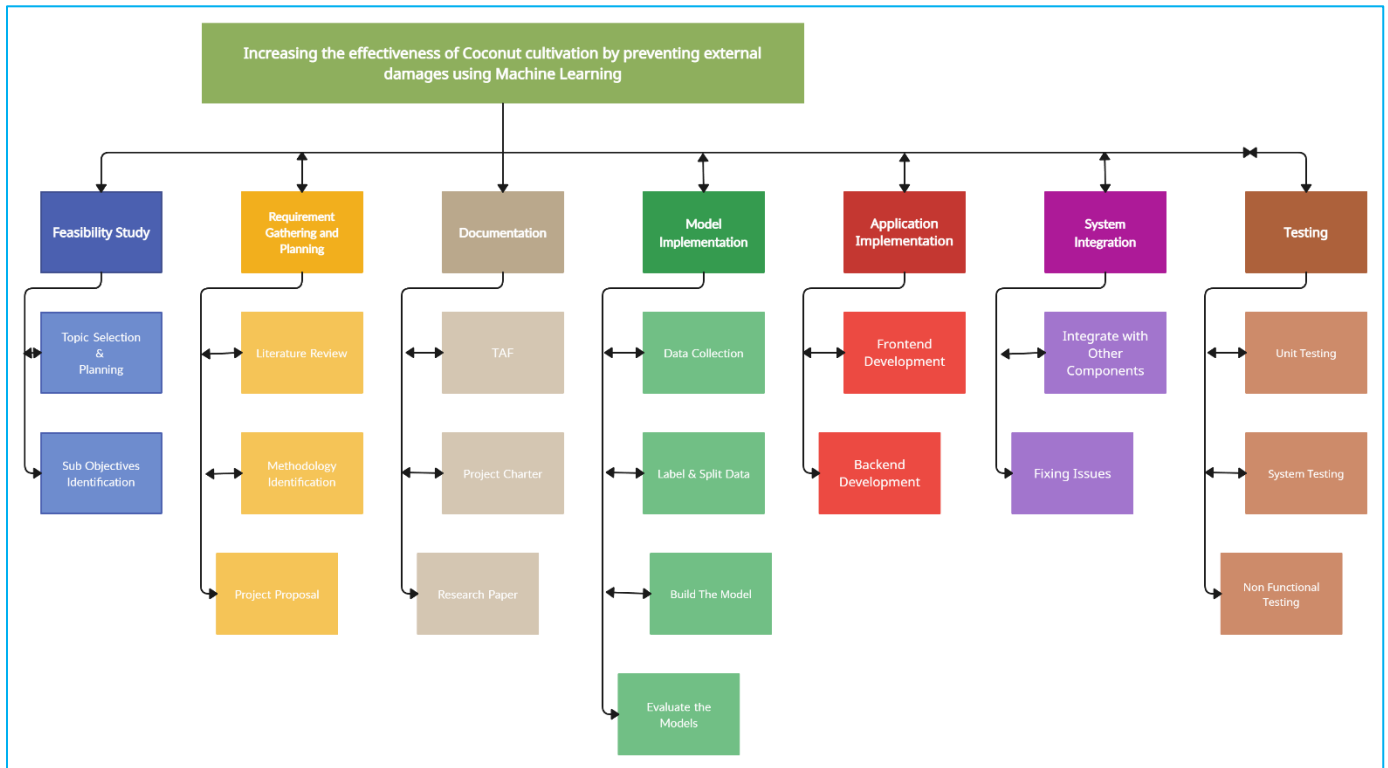
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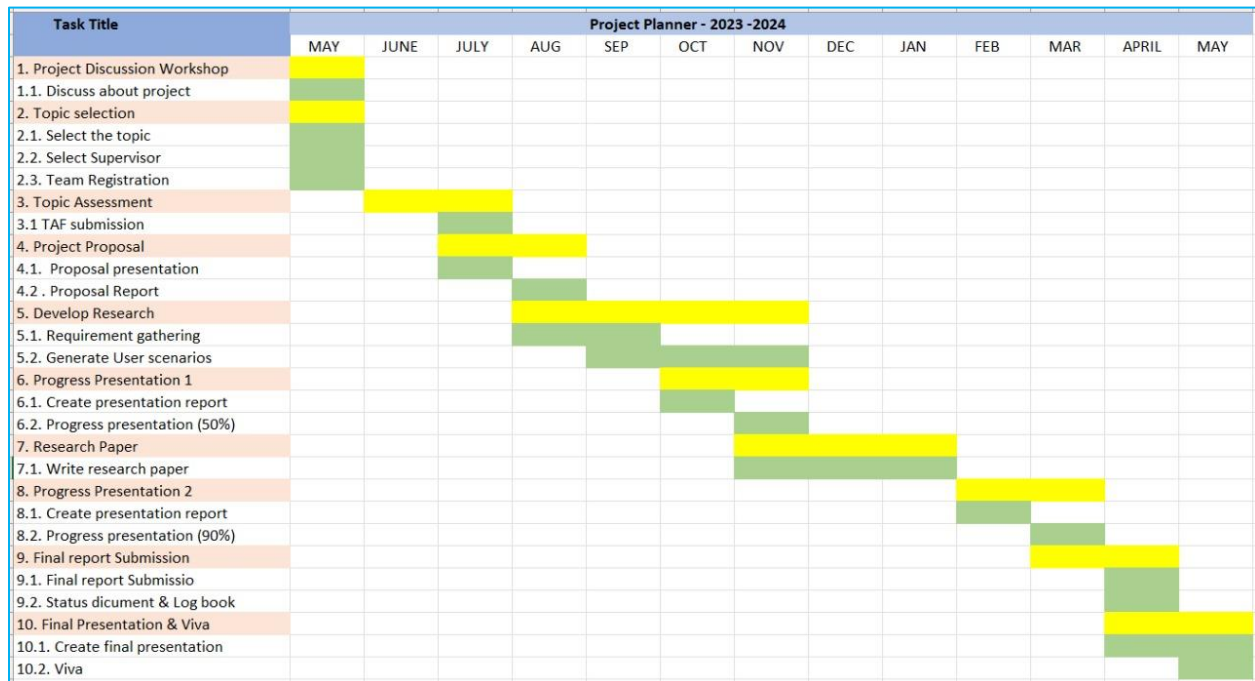
1. WORK BREAKDOWN STRUCTURE

The work breakdown structure entails breaking down a project or task into smaller, more manageable parts in a hierarchical manner. The work breakdown structure plan for the research project's timeline is presented below.



2. GANTT CHART

A Gantt chart is a popular project management tool used to visualize the schedule and progress of tasks or activities over time. The Gantt chart which we designed to plan our progress is as shown in the following diagram.



3. PROGRESS AND PLANNER

Tracking the Completed Tasks

Task tracking is an efficient way to manage a project. For tracking purpose each component maintains a personal task tracking excel sheet.

Research Tracker			
Main tasks	Sub Tasks	STATUS	Completed DATE
Data Collection	Find a source to Collect the data	☑ Complete	
	Collect the Coconut caterpillar images	☑ Complete	
	Collect the 'Whitefly' images	☑ Complete	
	Devide and Prepare the dataset	☑ Complete	
	Upload the dataset in to cloud	☑ Complete	8/31/2023
Model Implementation	Preprocess the data	☑ Complete	
	Find the way to balance the imbalance dataset	☑ Complete	
	Create the CNN model	☑ Complete	
	Test and Evaluate the Model	☑ Complete	15/10/23
Mobile Application FrontEnd Development			
	UI Design	☑ Complete	
	Logo Design	☑ Complete	
	FrontEnd development through AS	✗ On hold	
Mobile Application BackEnd Development			
	Connect with firebase	✗ On hold	
	Develop Backend	✗ On hold	
	Connect with frontend	⚠ Not started	
CNN Pretrained Models Comparison	Combine Each Component	⚠ Not started	
	ResNet50, VGG16	☑ Complete	
	MobileNet, InceptionV3	☑ Complete	
	Densenet	☑ Complete	
	Evaluation	🔄 In progress	
Research On Latest Pest solutions	Comparison	🔄 In progress	
	Find Latest Products for Caterpillar infections	⚠ Not started	
	Find Latest Products for 'Whitefly' infections	⚠ Not started	
	Fine people related to them	⚠ Not started	

*Status – Completed/ In Progress/ On Hold/ Not Started

4. MEETINGS

MEETINGS WITH THE SUPERVISOR (MR. Vishan Jayasinghearachchi)

As a team, it is necessary to obtain proper guidance from the supervisor to complete the project successfully. Supervisor guidance is crucial for a research project as it provides valuable expertise, support, and mentorship throughout the research process. The following are the details of the meetings that were conducted with the supervisor.

Date	Reason	Mode
11/07/2023	Discuss about the topic selection	Physical
19/07/2023	Finalize the topic	Physical
22/07/2023	Discuss about Proposal presentation	Teams
11/08/2023	Discuss about proposal issues	Hybrid
18/08/2023	Finalize the Components	Hybrid
25/08/2023	Discuss about TAF	Hybrid
01/09/2023	Initial awareness for progress presentation 1	Teams
06/10/2023	Prep for Progress Presentation	Physical
31/10/2023	Final Prep for Progress Presentation	Physical
10/11/2023	Discuss about the PP1 Comments	Hybrid
01/12/2023	Discuss component progress & related issues	Hybrid
15/12/2023	Initial awareness for research paper publication	Hybrid
22/12/2023	Discuss progress of the research paper & components	Hybrid
19/01/2024	Discuss progress of the research paper & components	Teams

*HYBRID – Some members physically & others online

MEETINGS WITH THE CO-SUPERVISOR (MR. Samadhi Rathnayake)

Date	Reason	Mode
11/07/2023	Discuss about the topic selection	Physical
19/07/2023	Finalize the topic	Physical
06/10/2023	Discuss component progress & related issues	Teams
27/10/2023	Discuss about Progress presentation	Teams