



**SRI LANKA
INSTITUTE OF INFORMATION TECHNOLOGY
25-26 JULY RP**

Research Project Periodic Log Entry Form

Project ID: 25-26J-299
Student ID: IT22888648
Name: Rodrigo U M T H
Individual Component: Dietary Safety Advisor (Food–Medicine Safety Analysis)

Summary of RP work carried out during the reporting period.

| Date | RP Work |
|-------------|--|
| 15/08/2025 | Started searching for research papers related to food-drug interactions and dietary safety from Google Scholar and ResearchGate. |
| 17/08/2025 | Drafted a survey questionnaire targeting both patients and doctors to identify common issues with food-medicine safety. |
| 18/08/2025 | Finalized the survey questions after revisions and prepared the form for distribution. |
| 19/08/2025 | Studied and mapped the functional flow of my component within the overall MediLink system. |
| 20/08/2025 | Began drafting the abstract and background section, summarizing the purpose of the component. |
| 23/08/2025 | Drafted the main objectives and specific objectives of my component aligning with project goals. |
| 24/08/2025 | Planned the project execution approach by breaking down the work into phases and documented the methodologies to be used. |
| 25/08/2025 | Identified and documented project requirements, including both functional and non-functional requirements. |
| 26/08/2025 | Drew and finalized the use case diagram for the component. |
| 27/08/2025 | Worked on the commercialization section, analyzing feasibility, scalability, and long-term value of the solution. |



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Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

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Code base checked: Yes/No

Signature:

Date:

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Research Project Periodic Log-entry Form

Project ID: 25-26J-299

Student ID: IT22888648

Name: Rodrigo UMTI

Individual Component: Dietary Safety Advisor

Summary of RP work carried out during the reporting period.

| Date | RP Work |
|-----------------------------|---|
| 29/08/2025 | Completed the pending sections of the proposal draft and arranged them for submission. |
| 30/08/2025 30 | Started preparing for the proposal presentation and refined the survey points. |
| 02/09/2025 | Designed the slide layouts to match the evaluation guidelines. |
| 04/09/2025 | Created slides for problem definition, research gap and proposed see solution for my component. |
| 05/09/2025 | Prepared slides highlighting food-drug interaction risk and dietary issues in Sri Lanka. |
| 06/09/2025 | Collected details on recent tools and Mh approaches useful for dietary advisory and noted validation ideas. |
| 07/09/2025 | Wrote draft notes on commercialization, focusing on hospital adoption and long-term scalability. |
| 08/09/2025 | Reviewed data sources and prepared points for ethical clearance related to patient and doctor surveys. |

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Date: ____/____/____

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| 09/09/2025 | Finalized marketplace section and included budget justification for the component. |
| 10/09/2025 | Revised and polished the presentation slides ensuring everything were clear. |

SUPERVISOR'S COMMENTS

Student progressing well in research project: YES / NO

If NO :

Project work to be carried out before next evaluation period:

code base checked : YES / NO

Signature : _____

Date : _____



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| Date | RP Work |
|-------------------------|---|
| 28/09/2025 | Began gathering information and background details for the research topic. |
| 29/09/2025 - 03/10/2025 | Continued searching for related studies, noted key findings, and shortlisted possible research areas. |
| 05/10/2025 | Started outlining components and initial system flow for the selected topic. |
| 06/10/2025 - 09/10/2025 | Collected supporting research papers and summarized the main concepts relevant to the study. |
| 10/10/2025 | Reviewed and refined the topic idea and updated objectives accordingly. |
| 11/10/2025 - 12/10/2025 | Discussed and finalized the topic with team members after reviewing the gathered materials. |



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| Date | RP Work |
|----------------------------|---|
| 14/10/2025 – 15/10/2025 | Continued gathering information and background details for the Stress Prediction of roses. |
| 16/10/2025 – 18/10/2025 | Continued gathering information and background details for the Energy Optimization for greenhouses for roses. |
| 19/10/2025 – 25/10/2025 | Started outlining components and initial system flow for the selected topic. |
| 26/10/2025 – 27/10/2025 | Worked on the proposal report. |

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Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

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Code base checked: Yes / No

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Date: 27/oct/2025



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Project ID: 25-26J-299
Student ID: IT22888648
Name: RODRIGO U M T H
Individual Component: Centralized Stress Prediction & Energy Optimization System

Summary of RP work carried out during the reporting period.

| Date | RP Work |
|----------------------------|---|
| 01/11/2025 - 07/12/2025 | Setup with all the sensors IoT sensor readings and integrated with Arduino. |
| 08/11/2025 - 14/11/2025 | Started to collect sensor data into micro-SD card module. |

Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

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Individual Component: Centralized Stress Prediction & Energy Optimization System

Summary of RP work carried out during the reporting period.

| Date | RP Work |
|----------------------------|--|
| 15/11/2025 - 21/11/2025 | Continue with sensor data collection while developing the backend of the application. |
| 22/11/2025- 30/11/2025 | Setup the MongoDB to store sensor data while store into the SD card as temporary view. |

Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

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Individual Component: Centralized Stress Prediction & Energy Optimization System

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|----------------------------|--|
| 01/12/2025 - 07/12/2025 | Started the integration of the backend with MongoDB while configuring the special functionalities. |
| 07/12/2025 | Started to train the ML model with the collected sensor data. |
| 08/12/2025 - 14/12/2025 | Started to develop the front end of the application. Develop the ML to retrieve predictions. |

Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

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| Date | RP Work |
|----------------------------|---|
| 15/12/2025 - 21/12/2025 | Prepared to PP1 while creating the video demo. |
| 22/12/2025 - 31/12/2025 | Started to collect sensor data with different parameters such as Nighttime, Raining Time. |

Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

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Individual Component: Centralized Stress Prediction & Energy Optimization System

Summary of RP work carried out during the reporting period.

| Date | RP Work |
|----------------------------|---|
| 01/01/2025 - 07/01/2025 | Started to collect data for reach paper writing while preparing to the PP1. |
| 08/01/2025 - 14/12/2025 | Started with the next steps for Greenhut solution while testing the system with house kept roses. |

Supervisor's Comments

Student progressing well in research project: Yes / No

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|----------------------------|---|
| 15/01/2025 - 21/01/2025 | Started with the research paper writing while collecting the information from the references. |
| 22/01/2025 - 26/12/2025 | Continue the research paper writing. |

Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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Individual Component: Centralized Stress Prediction & Energy Optimization System

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| Date | RP Work |
|----------------------------|--|
| 01/02/2026 - 07/02/2026 | Restructured the development framework to align all components into a unified, commercially viable product. |
| 08/02/2026 - 15/02/2026 | Enhanced the device-related component as part of the product upgrade, incorporating improvements based on PP1 research panel feedback. |



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| Date | RP Work |
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| 13/02/2026 - 15/02/2026 | Continued working on the research paper, focusing on improving structure, clarity, and content alignment with research objectives. |
| 16/02/2026 - 23/02/2026 | Worked on system implementation tasks, including updating and restructuring the database to support multiple greenhouses and devices. |



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|--------------------------|---|
| 01/3/2026 - 07/3/2026 | Working handling multiple devices, greenhouses and users. |
| 08/3/2026 - 14/3/2026 | Preparation for the PP2. |

Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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Student ID: IT22888648
Name: RODRIGO U M T H
Individual Component: Smart Rose: Centralized Stress Prediction & Energy Optimization System

Summary of RP work carried out during the reporting period.

| Date | RP Work |
|--------------------------|--|
| 15/3/2026 - 21/3/2026 | Working on Research Paper submissions. |
| 22/3/2026 - 31/3/2026 | Submitting the research papers and applying for the competition while creating the demo video with all the products. |

Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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| Date | RP Work |
|-------------------------|---|
| 1/4/2026 - 17/4/2026 | Working on deployment of the application. |

Supervisor's Comments

Student progressing well in research project: Yes / No

If No:

Project work to be carried out before next evaluation period:

Code base checked: Yes/No

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