Sri Lanka Institute of Information Technology



Smart System to Optimize Organic Crop Rotation Using Precision Agriculture Data

2023-113

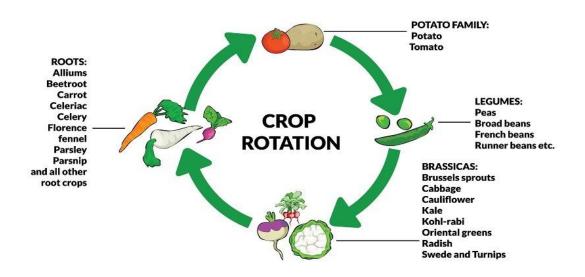
Ranasinghe R.A.D.M

IT20244552

Software Engineering Specialization

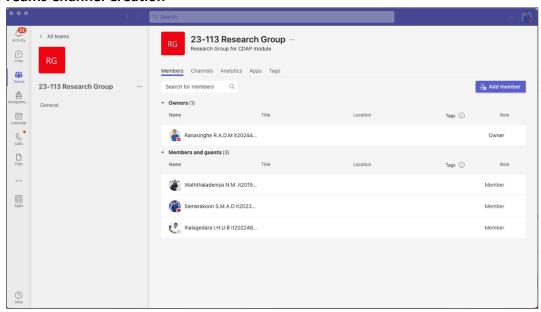
TABLE OF CONTENTS

PROJECT GROUP COMMUNICATION	. i
Microsoft Teams Channel Creation	. i
Trello Board Creation	. i
WhatsApp Group Creation	ii
LOGBOOK CONTENT	1

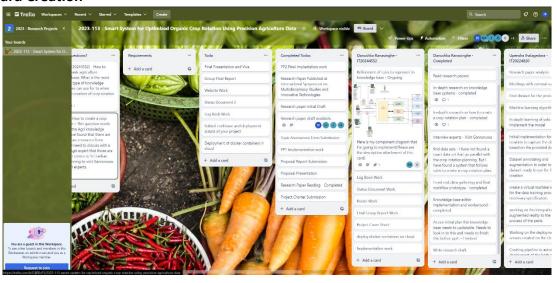


PROJECT GROUP COMMUNICATION

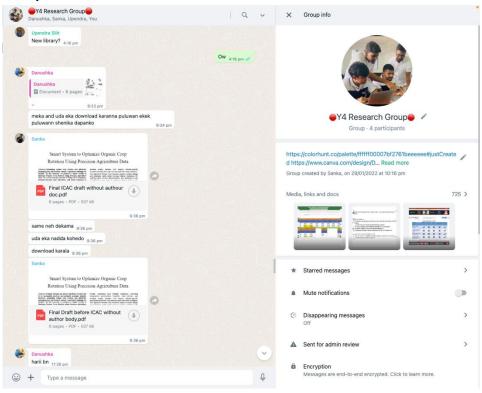
Microsoft Teams Channel Creation



Trello Board Creation



WhatsApp Group Creation



LOGBOOK CONTENT

Meeting date	7-Feb-23
Meeting type	Topic evaluation discussion
Attendance	Supervisor, Co-supervisor, All 4 group members
Discussed points	 Discussion about the potential components. Novelty of the components Finalizing the components
Comments and summary	 In this meeting, the potential components for each member were discussed. Each member presented their ideas to the supervisor and the co-supervisor and got their feedback. Both the supervisor and co-supervisor modified the ideas of the members by adding technical aspects. Also, the components were narrowed down so that it could be done within a year. The novelty of the components was discussed, and the feedback of the supervisor and the co-supervisor helped us immensely to think in different ways.

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	11-Mar-23
Meeting type	Meeting with supervisor
Attendance	Supervisor, All 4 group members
Discussed points	 Discussion about the charter document submission. Discussion about the proposal presentation.
Comments and summary	 Since the Topic evaluation form was "Accepted with minor changes", we had a meeting with the supervisor to verify it. The final draft of the charter document was also presented and got feedback from the supervisor. An external supervisor was taken into our project as it was the feedback given to us by the panel. Was also instructed to contact the RP module team to clarify the doubts regarding the Project proposal deliverables.
• Comments:	,

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	12-Mar-23
Meeting type	Meeting with an external supervisor
Attendance	External supervisor, All 4 group members
Discussed points	 Discussion about the cop rotaion Discussion about the each members component.
Comments and summary	 Talked about the organic farming methods in Sri lanka with our External supervisor. We were able to gain knowledge about how the traditional organic farming works in Sri Lanka Was able to get an idea about how the soil and whether affect the organic cultivation
Comments:	

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	13-Mar-23
Meeting type	SCRUM meeting
Attendance	All 4 group members
Discussed points	 The Trello board was formatted. The form for commercialization was finalized.
Comments and	
summary	 We started using Trello as the platform for project management and communication. After our meeting, we prepared the Trello board appropriately. We succeeded in completing the form that will be use to determine any potential gaps in the market for the purpose of our study.
• Comments:	

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	24-Mar-23
Meeting type	SCRUM meeting
Attendance	All 4 group members
Discussed points	 Creating the proposal report. Formatting the final draft of the proposal report.
Comments and	
summary	 The team was working on the proposal report after turning in the proposal report's initial drafting. The report was finished by the whole team, and in the conclusion, a final drafting was made. The supervisor received the reports in order to provide input so that we may further enhance our particular areas of improvement.
Comments:	

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	18-May-23
Meeting type	Meeting with supervisor
Attendance	All 4 group members
Discussed points	 About the PP1 About the specific components
Comments and summary	Every group member received guidance. Discussed mainly about what should be the goal in pp1. US
	Securation SMADINSTREE Securation SMADINS

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	19-Jun-23
Meeting type	Meeting with supervisor and co-supervisor
Attendance	All 4 group members
Discussed points	 About the feedback that was given at the PP1. Received advices on how to improve on the points that are mentioned in the pp1. Discussed about the Research paper writing
Comments and summary	Discussed how to address and improve on the comments received in pp1. Discussed about how to write the research paper Research Project Meeting - TMP-23-113 Research Proje

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	10-Aug-23	
Meeting type	Meeting with supervisor and co-supervisor	
Attendance	All 4 group members	
Discussed points	Had a conversation about the written study paper. Talked on what ought to be included.	
Comments and	23-113 Research Paper Draft	
summary	Us Udara Samaratunge <udara.s@sliit.lk> To: Ranasinghe R.A.D.M it20244552 Cc: Ihalagedara I.H.U.B it20224820; +2 others [EXTERNAL EMAIL] This email has been received for review before actioning, clicking on links, or opening Dear Students, Fix following IEEE formatting issues. I added IEEE template things and send it to me. 1. Figures should be used as Fig.1, Fig.2 format not Figure spacing between figure name should be 4pt and 10pt 2. My name there should be double "II" => "Arachchillate" 3. Increase the font size further in the Figure 01. 4. All Table name spacing should be 12pt before and 6pt 5. All references need to be corrected. It should not be be 08. (check your previous paper version, reference 6. Check each and every reference IEEE referencing for</udara.s@sliit.lk>	therewith. you can check following ure 1, recorrect all figure names. The object before and after. age" pt after. center aligned and font size should ses were in correct format.

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	22-Aug-23
Meeting type	Research paper publication meeting
Attendance	Mr Udara Samarathunga
Discussed points	 Discussed about the conferences available. Discussed about the h-indexes and values of the conferences.
Comments and	
summary	■ fix x □ fox
	8th IEEE International Conference on Engineering Technologies and Applied Sciences
	Company Com
	** O C C C C C C C C C C C C C C C C C C

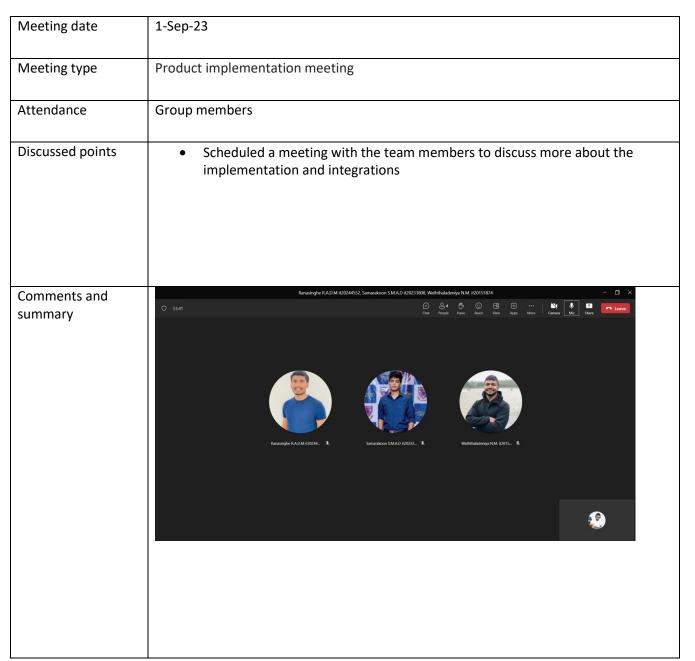
Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	28-Aug-23
Meeting type	Research paper submission
Attendance	All 4 group members
Discussed points	Discussed and submitted the research paper to ICAC
Comments and summary	 After carefully reviewing each member's qualifications, the group as a whole submitted the study report.
	© 3255 © 1 Prople Raise Reat View App More Center Mr. Start Ransengle RADM 20041. Ransengle RADM 20041. Samueration SMAD 200233098

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	1-Sep-23
Meeting type	Product final discussion
Attendance	All 4 group members and supervisor
Discussed points	Scheduled a meeting with the External supervisor to discuss more about the proposed system.
Comments and summary	Discussed more about the proposed system and several points were highlighted by the supervisor to improve the performance

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature



Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	4-Sep-23	
Meeting type	System unveiling meeting with the co-supervi	isor
Attendance	Members of the project team	
Discussed points	 Arranged a physical meeting with the implemented system. Received some points to discuss in Properties 	
Comments and summary	 The co-supervisor provided some possystem. Some recommendations were made to implemented system. 	to improve the performance of the
	 The areas that need to be prioritized discussed. 	for Progress Presentation 2 were
	● ITZ02244920, e1TZ0233800, e1TZ0151874 Ø Out Files +	2002 to the class. This message has been deleted. Upda This message has been deleted. Upda This message has been deleted. Upda
	Type a message: Apr 1 Pr 20	₽ >

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	5-Sep-23
Meeting type	Pre-presentation meeting with team members
Attendance	Members of the project team
Discussed points	Arranged a meeting with team members to practice the PP2 presentation.
Comments and summary	All team members' timings were checked and adjusted. Talked about the points that needed to be clarified in the PP2. **IT20224820, • IT20233808, • IT20151874
	onlikutions \$ 100 8.04 PM Call ended 4th 5fts September 4 \$ 104 8.04 PM Call ended 4thm 5fts September 4 \$ 104 8.04 PM Call ended 4thm 5fts September 4 \$ 104 8.04 PM Call started \$ 104 8.04
	ProgressPresentation2-TMP-22-113-pdts ProgressPresentation2-TMP-23-113-pdts ProgressPresentation2-TMP-23-113-pdts ProgressPresentation3-TMP-23-113-pdts ProgressPresentati

Click or tap to enter a date.

Date Supervisor/Cosupervisor/Ext. Supervisor

Supervisor/Cosupervisor/Ext. Supervisor Signature

Meeting date	16-Oct-23

Meeting type	Finalizing the thesis group report
Attendance	Members of the project team
Discussed points	 Arranged a team meeting to integrate the final thesis (group report). Individual contributions were formatted.
Comments and summary	Figure and table names were edited in accordance with a strict standard. The suggestions of each group member were considered, and the report was revised accordingly.
Comments:	

Click or tap to enter a date.

Date

Supervisor/Cosupervisor/Ext. Supervisor
Signature

Meeting date	19-Oct-23	
Meeting type	Code re-assessment meeting	
Attendance	Members of the project team	
Discussed points	 Scheduled a meeting with the team members to reassess the control project. Some modifications were made to Crop Rotation Planning Systems 	
Comments and summary	The validation of all the components were discussed in the call. If a TIT20233808, IT20151874 Chat. Files + Waththadenia N.M. C0151874 added Samurakon S.M.A.D. R20233888 and Ranatinghe R.A.D.M. R20344552 to the chat. If you shall proceed the components were discussed in the call. Samurakon S.M.A.D. R20233888 8/2 554 PM Samurakon S.M.A.D. R20233888 8/2 554 PM	& T
	This message has been deleted. Undo add me	

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor
	Signature

Meeting date	29-Oct-23
Meeting type	Meeting to finalize the project
Attendance	Members of the project team
Discussed points	 Arranged for a meeting with team members to finalize the logbook. Re-evaluated the GitLab repository and completed the final commits. Discussed the finalized research paper with team members.
Comments and summary	The logbook was updated by including all meetings held throughout the research project. The GitLab repository was completed by adding codes and merging them to ensure full implementation The GitLab repository was completed by adding codes and merging them to ensure full implementation

Click or tap to enter a date.	
Date	Supervisor/Cosupervisor/Ext. Supervisor