

**SRI LANKA INSTITUTE OF
INFORMATION TECHNOLOGY**



**Smart System to Optimize Organic Crop Rotation Using
Precision Agriculture Data**

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Batch:Software Engineering

Project ID:2023-113

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1. Microsoft Teams Calls

1.1 Teams calls with research Team

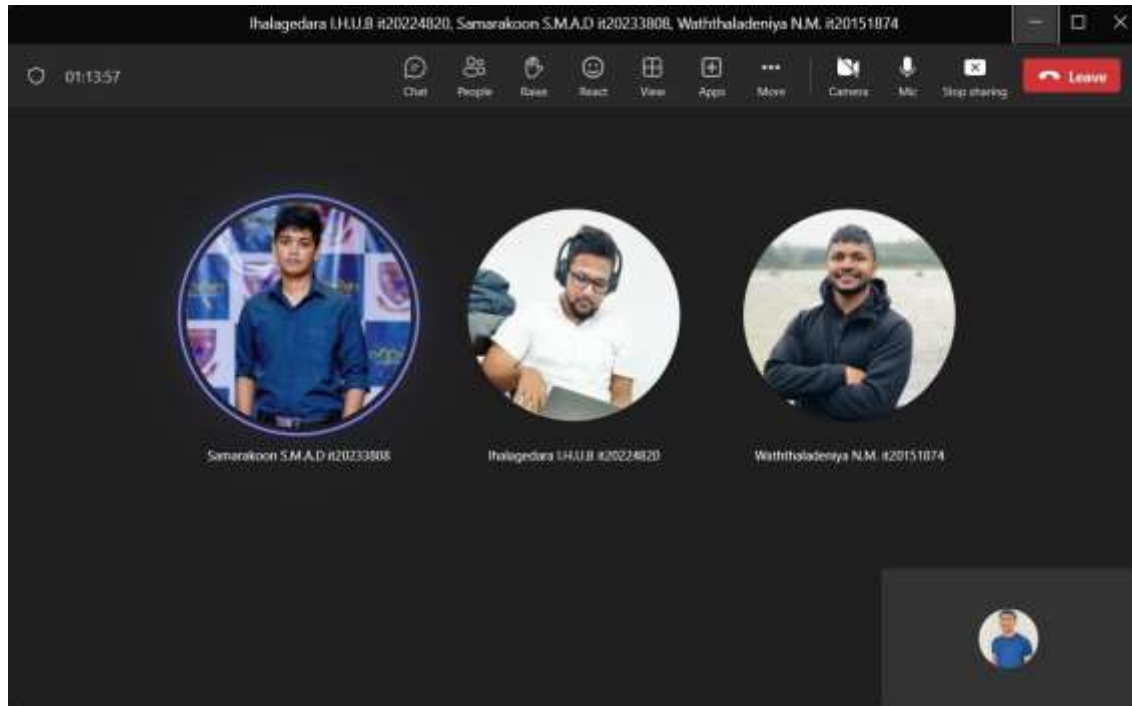


Figure 1 Teams call 1 with Research team

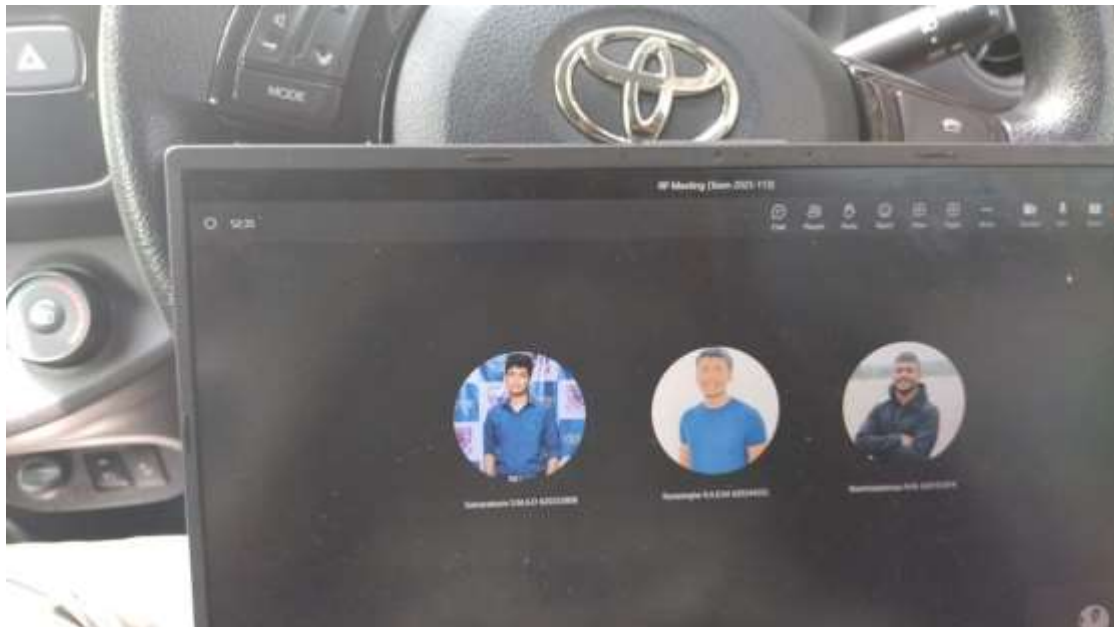


Figure 2 Teams call 2 with research Team

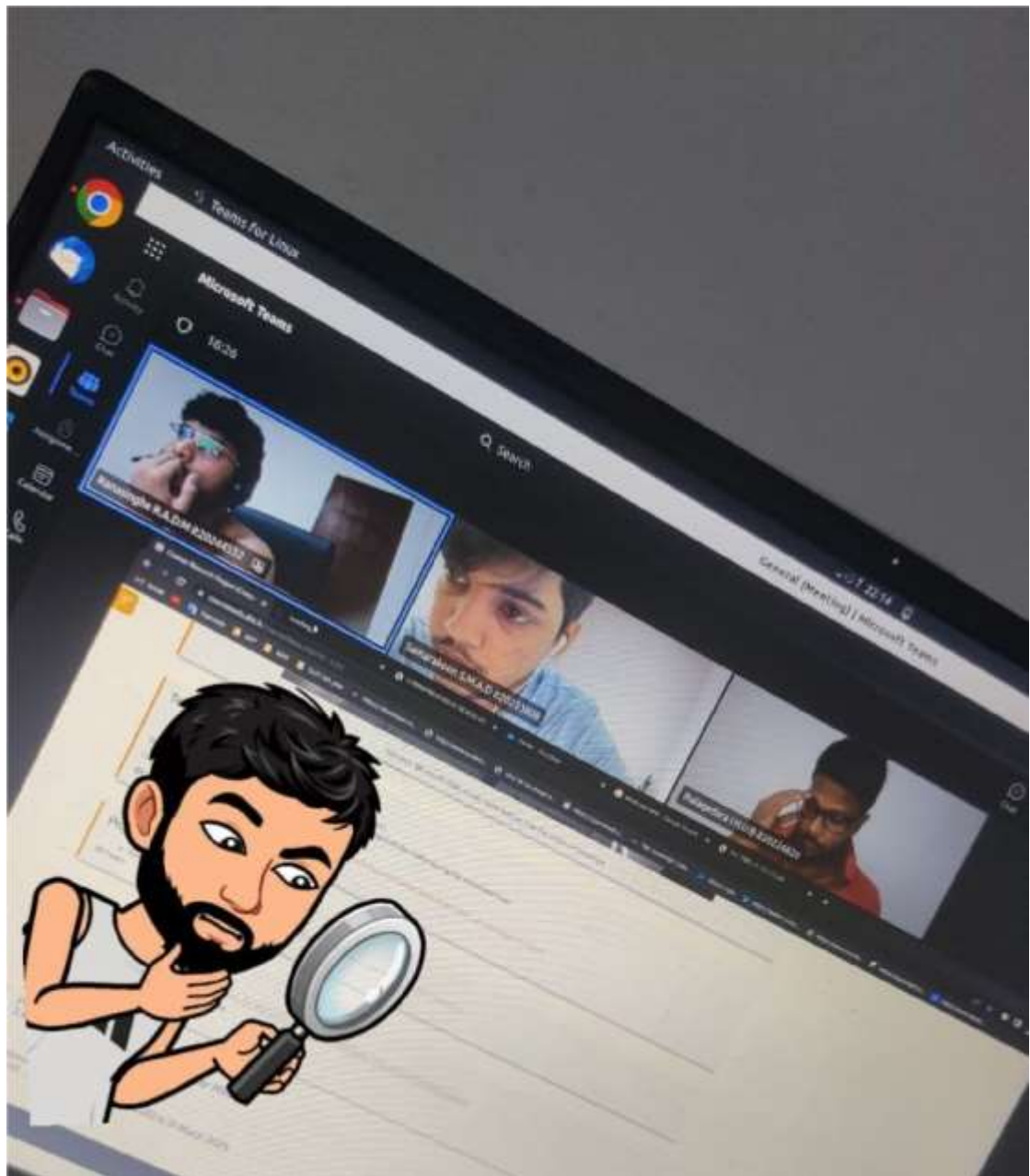


Figure 3 with research Team

1.2 Teams call with supervisor.

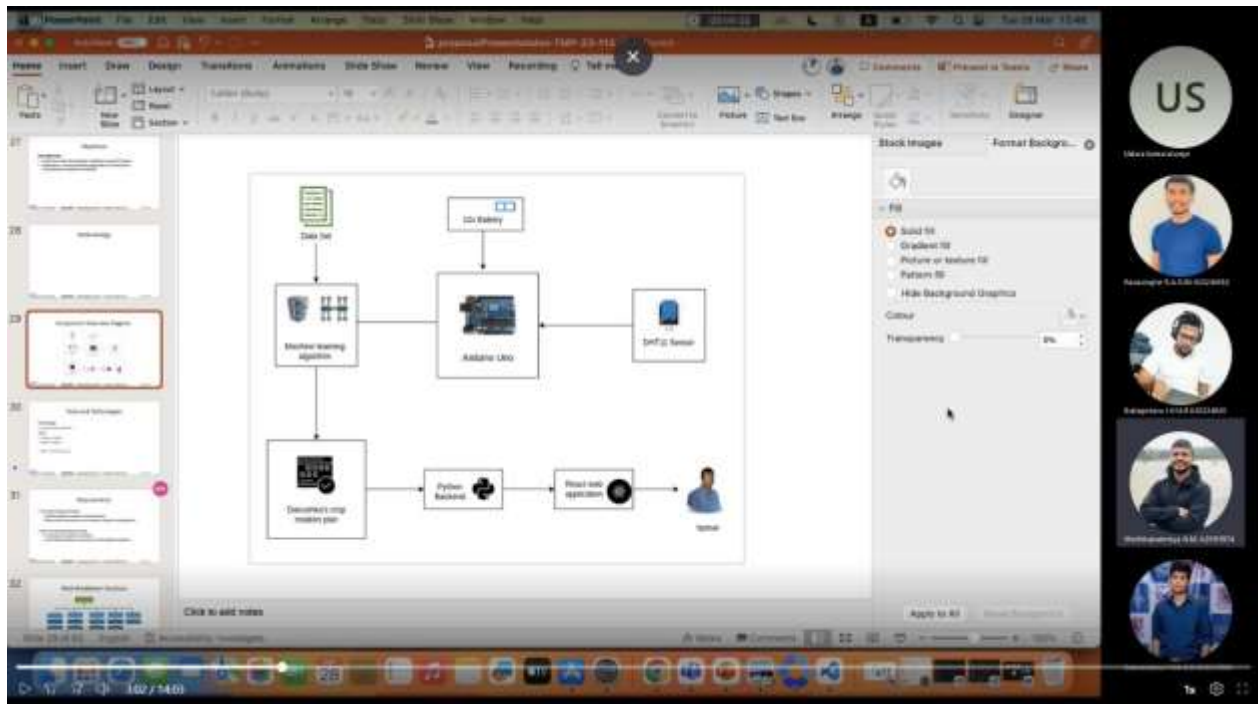


Figure 5 Teams call 1 with Supervisor

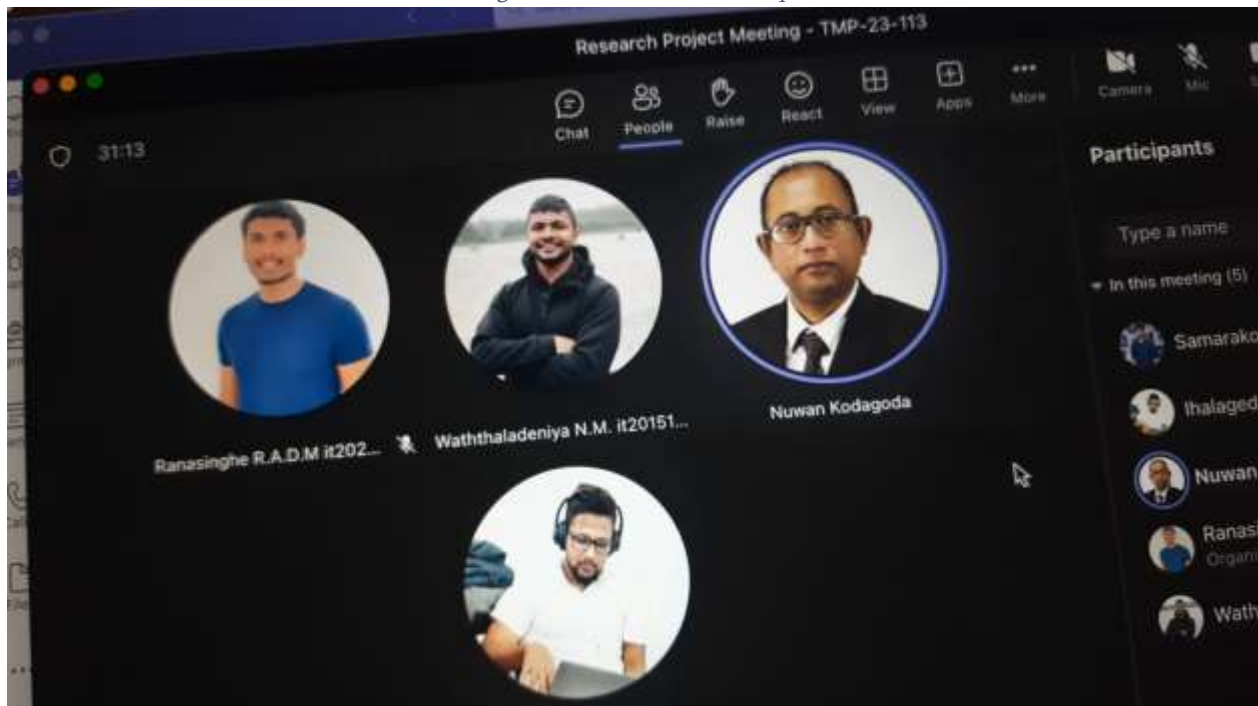
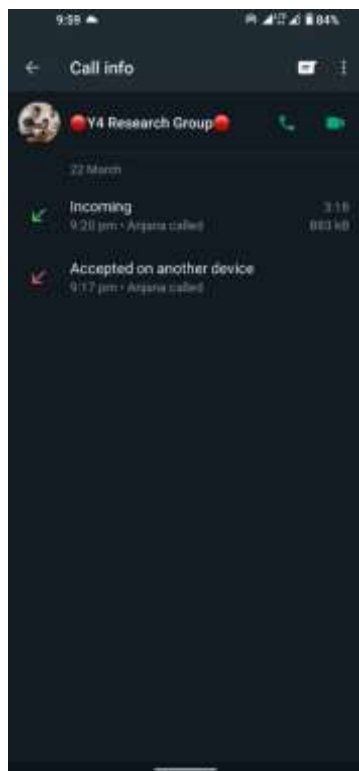
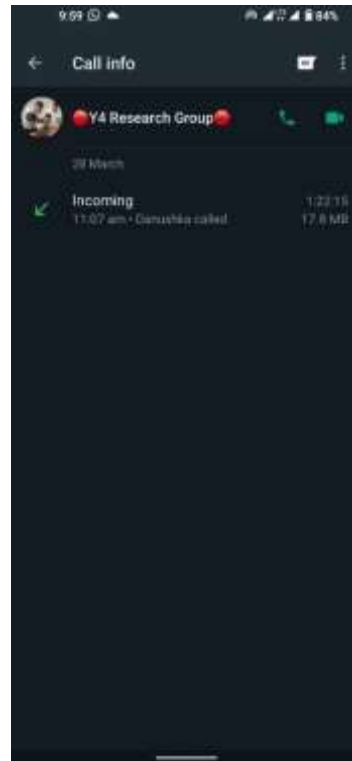
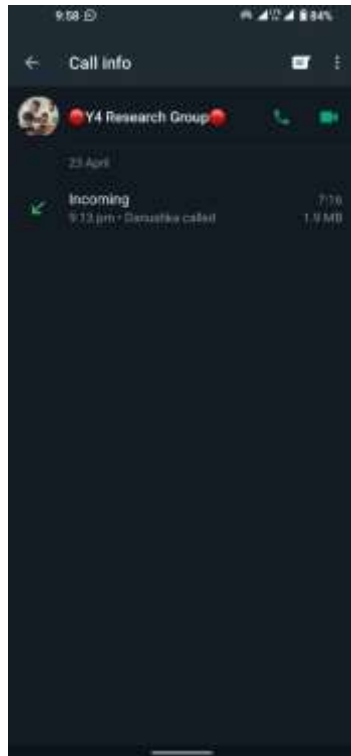


Figure 6 Teams call 2 with Supervisor

2. WhatsApp calls



3. Research Paper Publication

From: SETCMS <ismsit2023@set-science.com>
 Date: Sun, Oct 1, 2023 at 2:03 AM
 Subject: ISMSIT2023 - Acceptance Letter
 To: <ij20244552@my.sliit.lk>

Dear Sir/Madam,

We are pleased to inform you that your paper has been ACCEPTED at ISMSIT2023.

The acceptance letter of your submission has been sent.

NOTE: At least one author is required to register for each paper. You can visit our website for registration details.

On behalf of the organization committee we would like to congratulate you.

Best Regards,

One attachment • Scanned by Gmail



7th International Symposium on Multidisciplinary
 Studies and Innovative Technologies
 October 26-28, 2023, Ankara, Turkey (Hybrid)



Sep 30, 2023

INVITATION LETTER

Dear Danushka Ranasinghe,

To Whom It May Concern,

We are pleased to invite you to present your paper at "[International Symposium on Multidisciplinary Studies and Innovative Technologies](#)" which will take place in Ankara, Turkey, Oct 26, 2023 -Oct 28, 2023.

Scientific Committee of ISMSIT2023 summarized your paper details below.

Paper Title : Smart System to Optimize Organic Crop Rotation Using Precision Agriculture Data

Paper ID : 79

Paper Authors : Danushka Ranasinghe

For indexing, papers to be published in IEEE Xplore will be submitted to various international databases such as SCOPUS, Inspec, and Google Scholar.

ISMSIT 2023 is supported by Tokat Gaziosmanpasa University and [IEEE Turkey Section](#).

For the IEEE Xplore publishing option, you must complete the [Camera-Ready Submission process](#) by October 15, 2023.

Thank you in advance for your contribution toward to success of ISMSIT2023. We look forward to your participation to [ISMSIT2023](#) in Ankara, Turkey.

Best Regards,

Ebubekir Yasar
 On behalf of the organizing committee
 Symposium Chair

Zoom Meeting | You are viewing Danushka Ranasinghe's screen | View Options | Thu 26 Oct 2023

Vesselin Cho... | i | Danushka Ranasinghe | Iklima ermis L... | ISMSIT 2023 | Arsha Hidayati

ISMSIT 2023 7th International Symposium on Multidisciplinary Studies and Innovative Technologies October 26-28, 2023, Bodrum-Buynur, Ankara, Turkey (Hybrid)

IEEE Turkey Section

CONCLUSION

This research introduced a Smart System for Optimized Organic Crop Rotation, leveraging IoT, ML, and cloud computing to tackle challenges in organic farming. Also, a Real-time soil health analytics component, climate-sensitive data processing component and a cloud-based pest and disease identification model acts as a bridge between conventional and modern farming approaches, propelling the agricultural sector towards sustainability.

Unmute | Start Video | Participants | Chat | Share Screen | Record | Raise Hand | Apps | Webinars | Leave

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IEEE Turkey Section

Thank You

Authors - Danushka Ranasinghe, Anjana Samrakoon, Upendra Ithalagedara, Madusanka Waththaladeniya, Udara Samararatne, Nuwan Kodagoda

SLIIT UNIVERSITY

Smart System to Optimize Organic Crop Rotation Using Precision Agriculture Data | Paper ID : 79 |

4. Emails and planned Teams Events

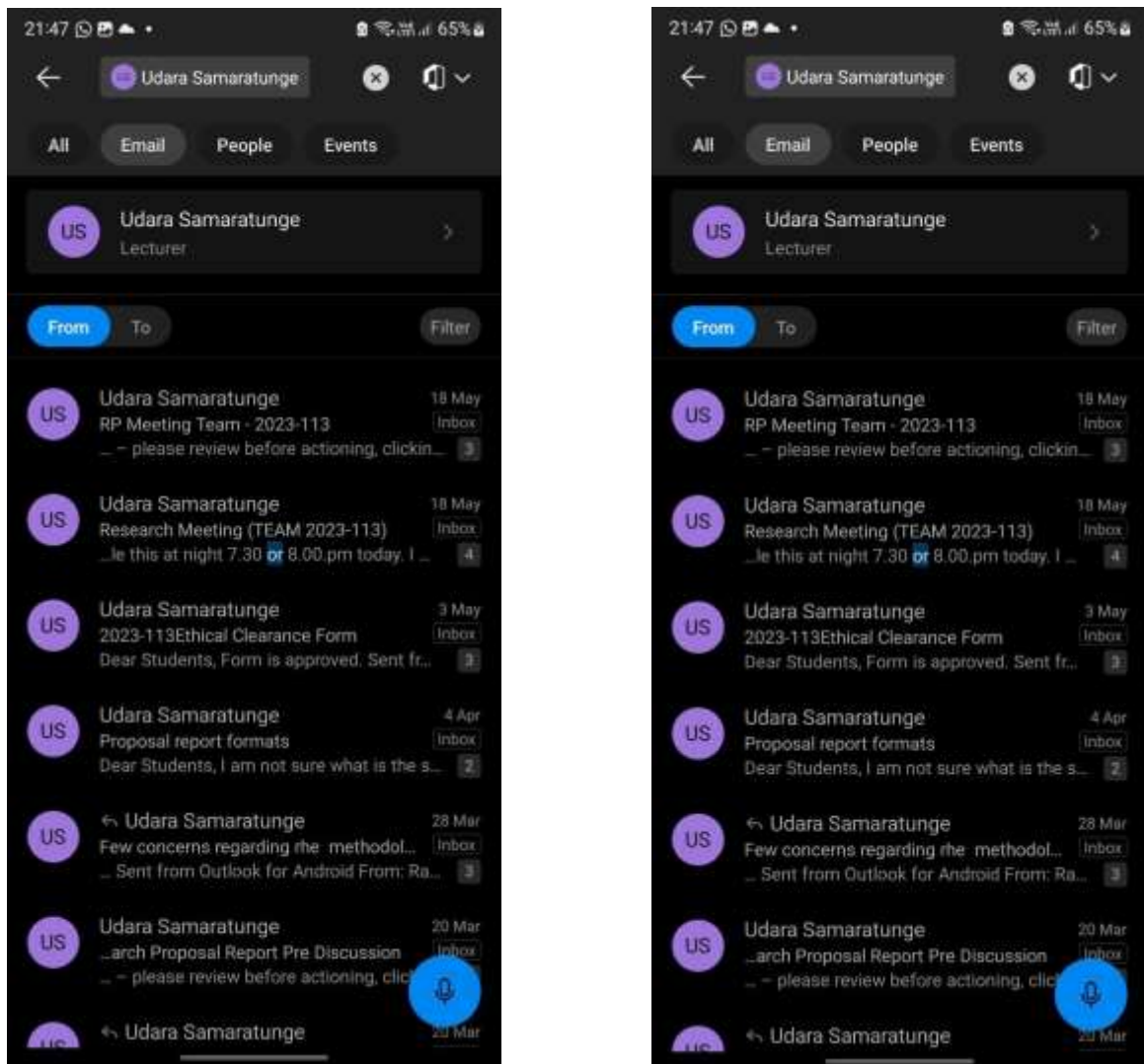


Figure 9 Email and Teams event

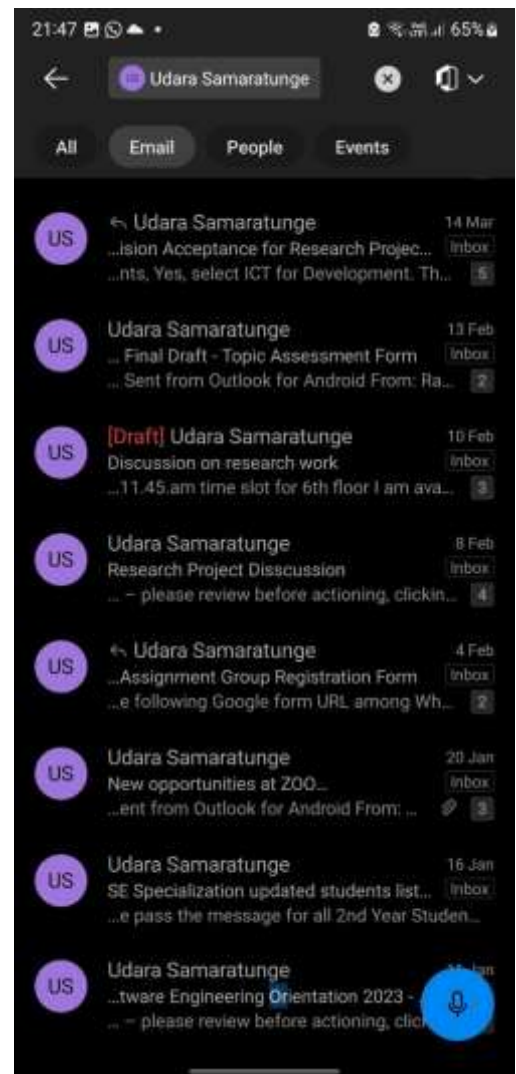
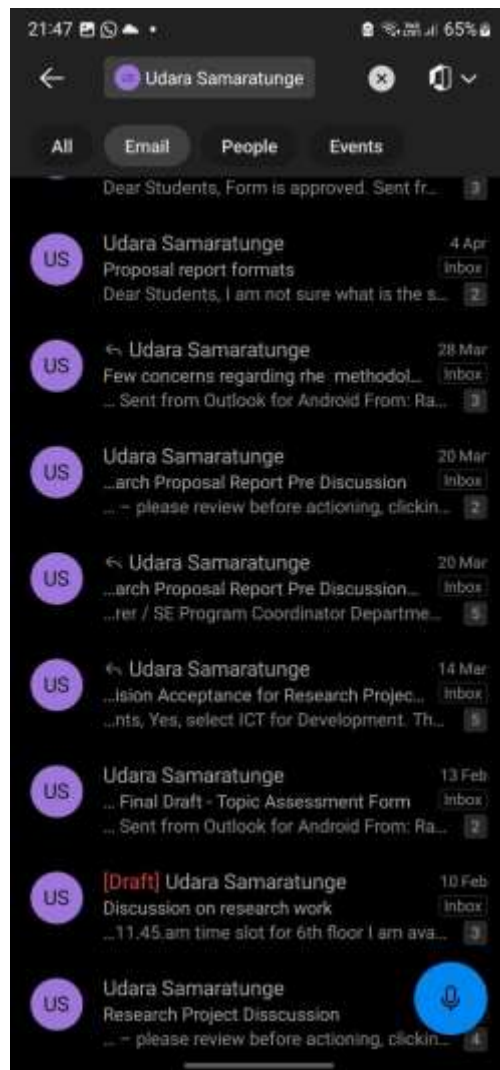


Figure 9 Email and Teams event

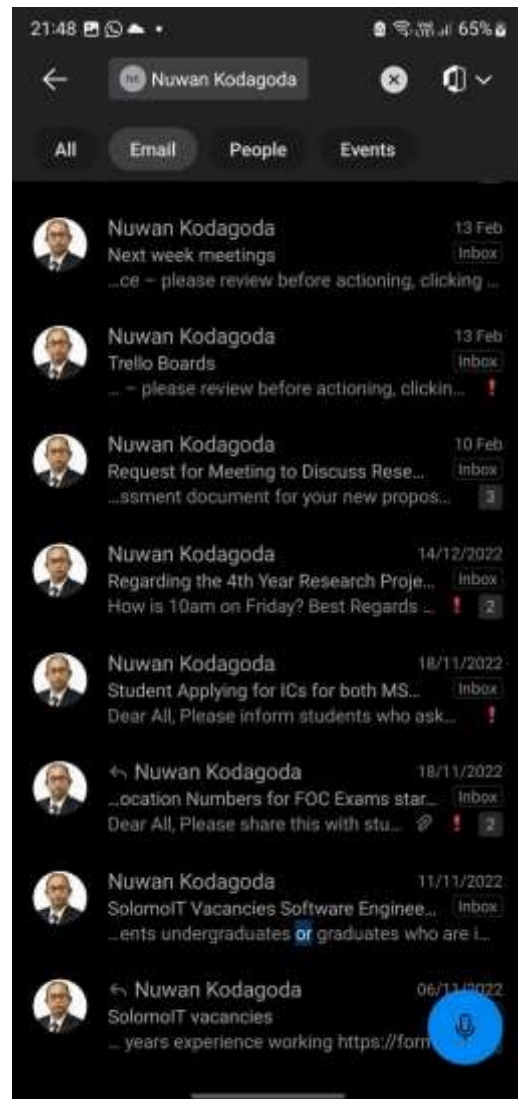
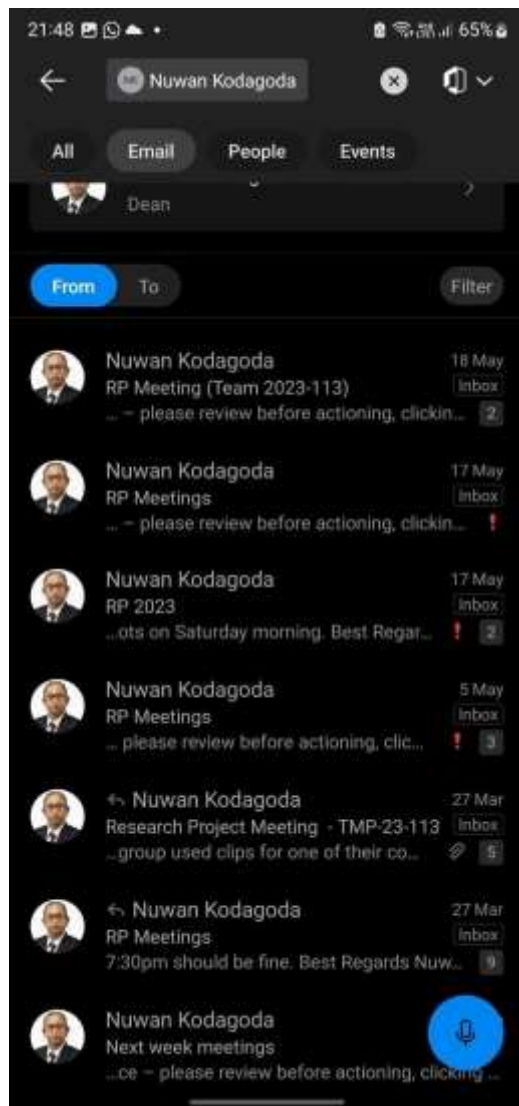


Figure 9 Email and Teams event

5. Trello Planner

5.1 Planner Board

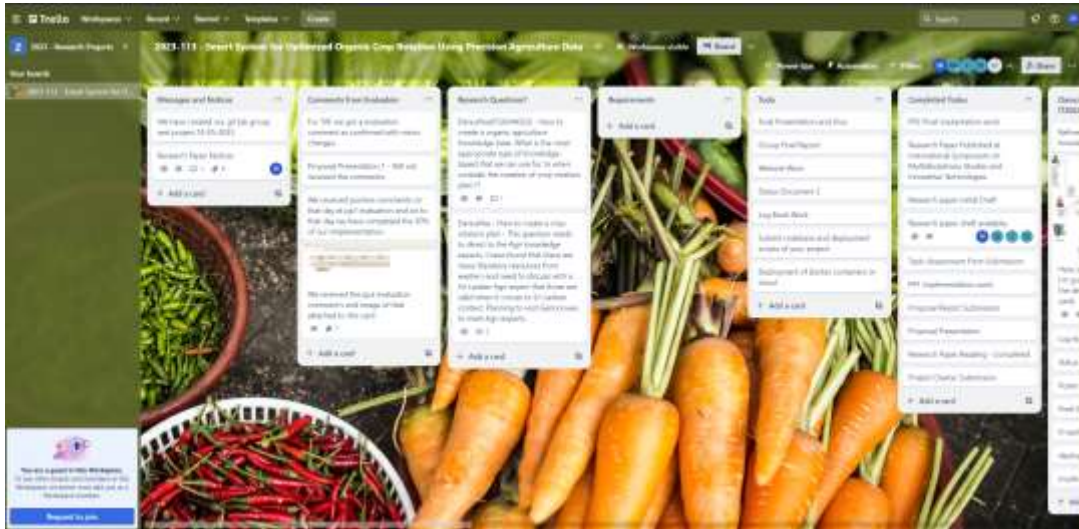


Figure 10 Planner board part 1

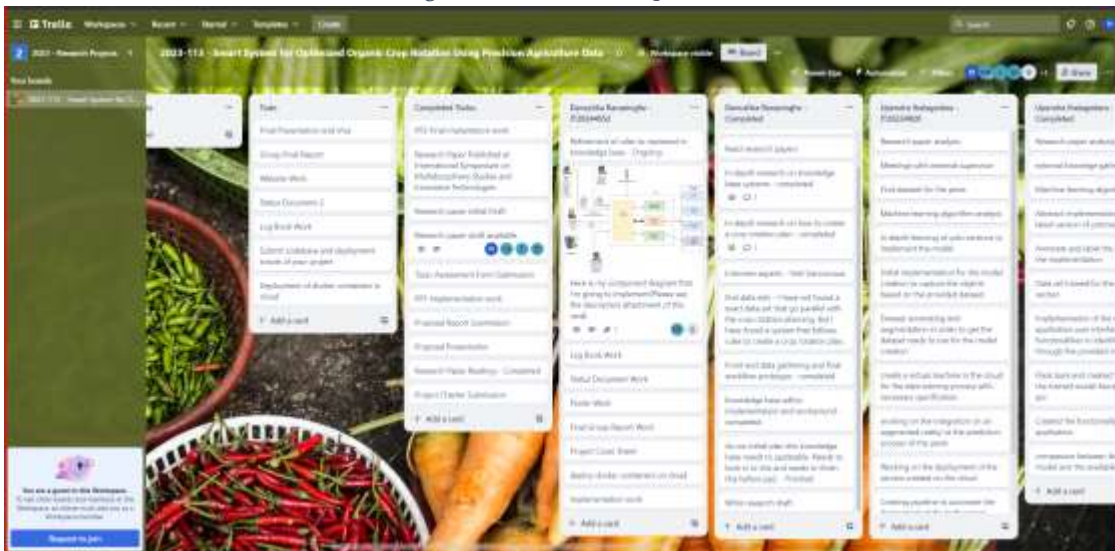


Figure 11 Planner Board part 2



Figure 11 Planner Board part2

5.2 Teams planner Schedule

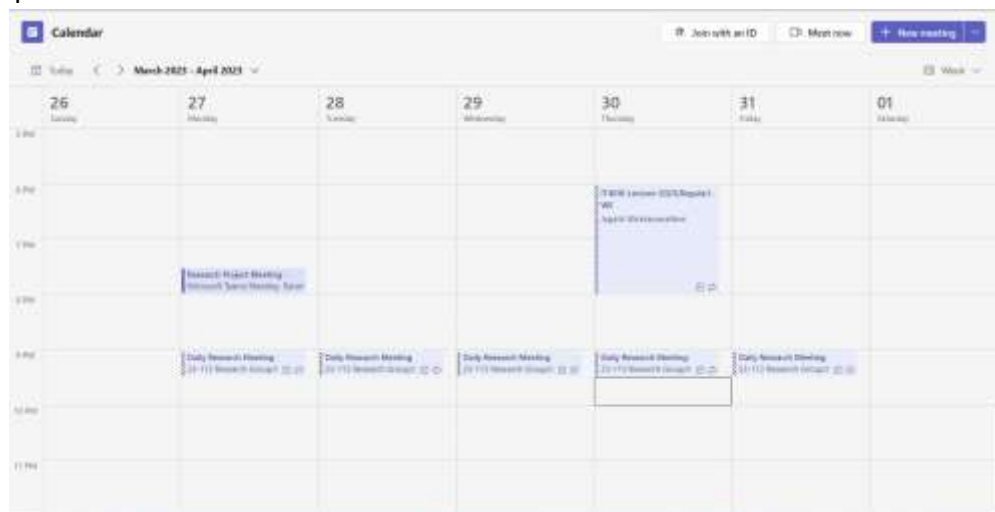


Figure 14 Teams Planner Schedule

5.3 Teams Planner Charts

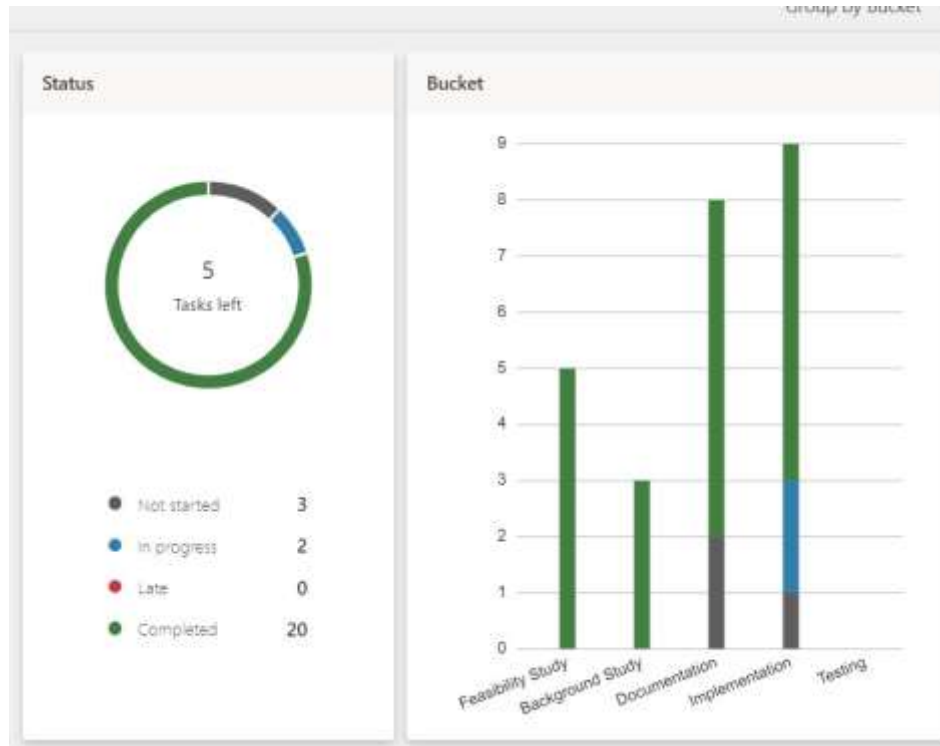
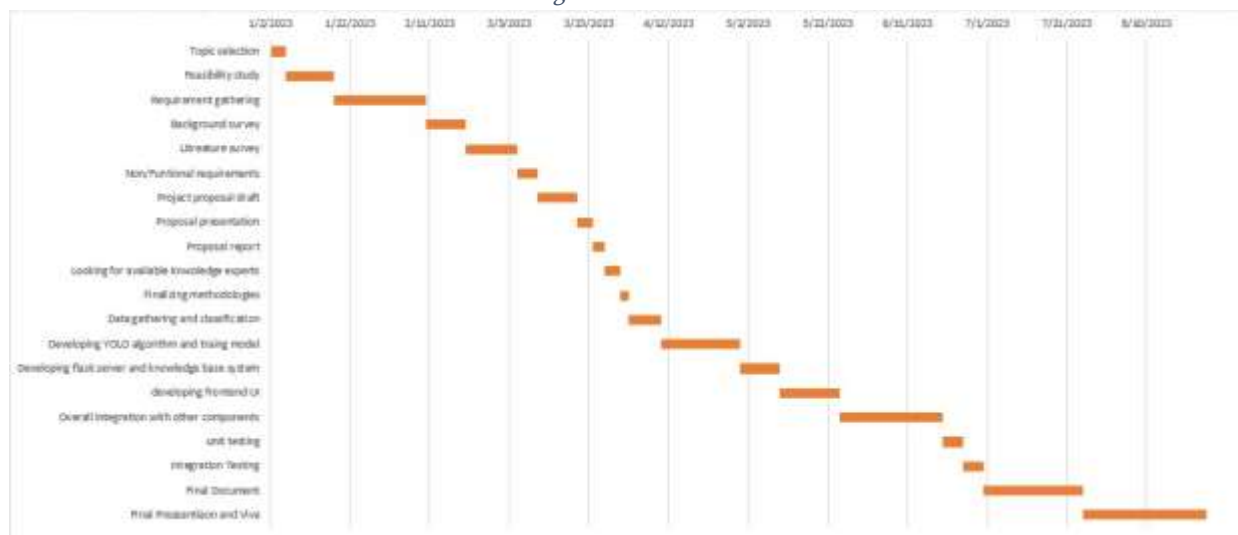


Figure 15 Teams Planner chart

6. Gantt Chart

Figure 16 Gantt chart



7. Work Breakdown Structure

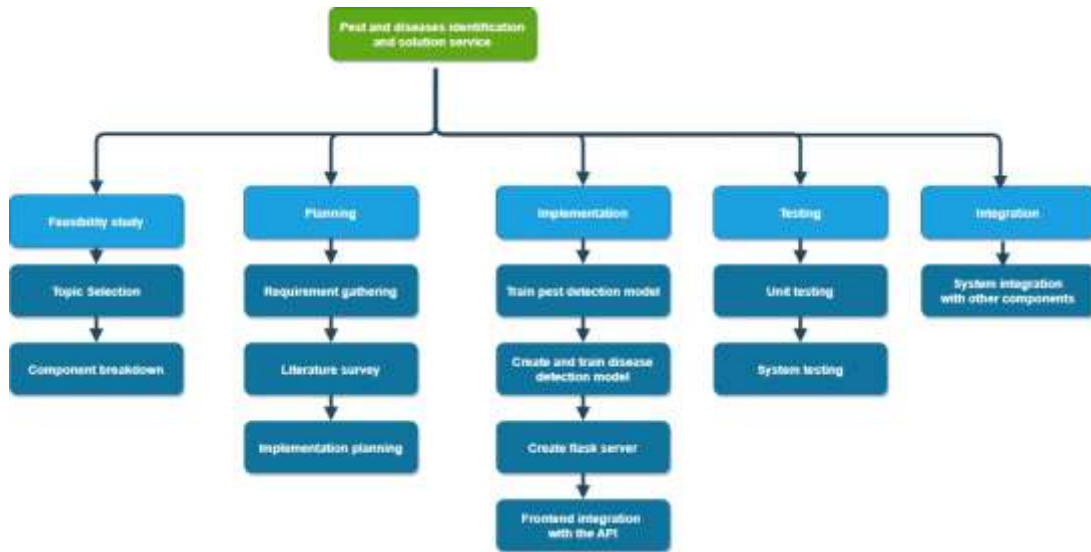


Figure 17 work breakdown structure

8. Gitlab Commits

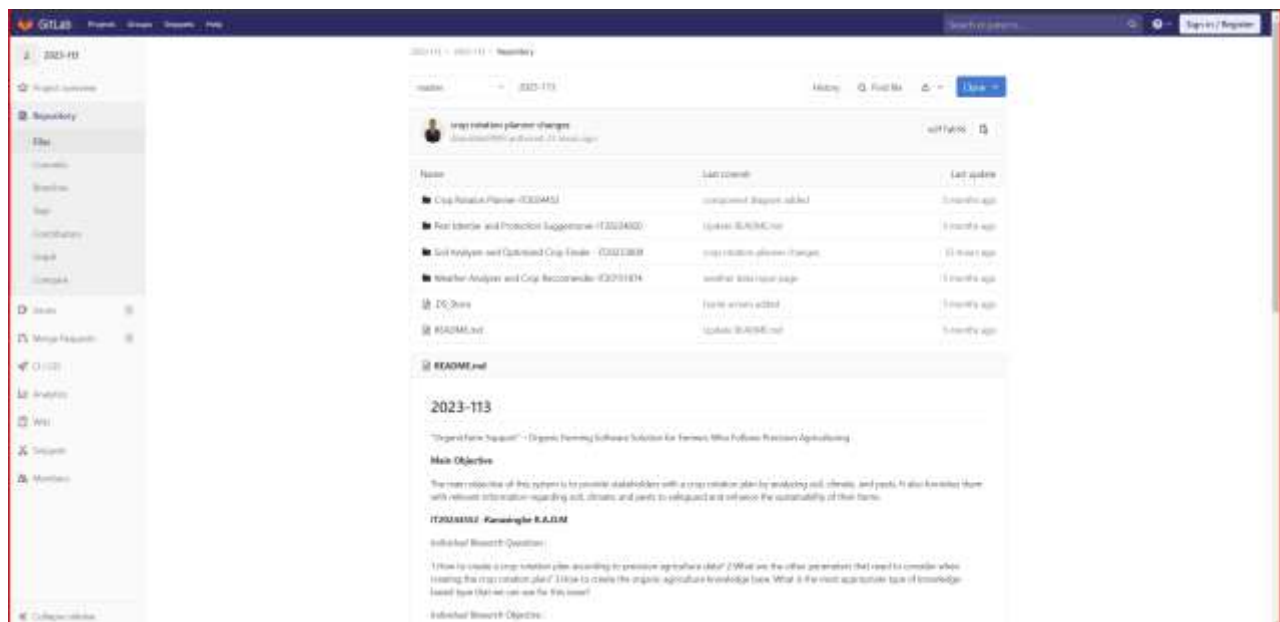
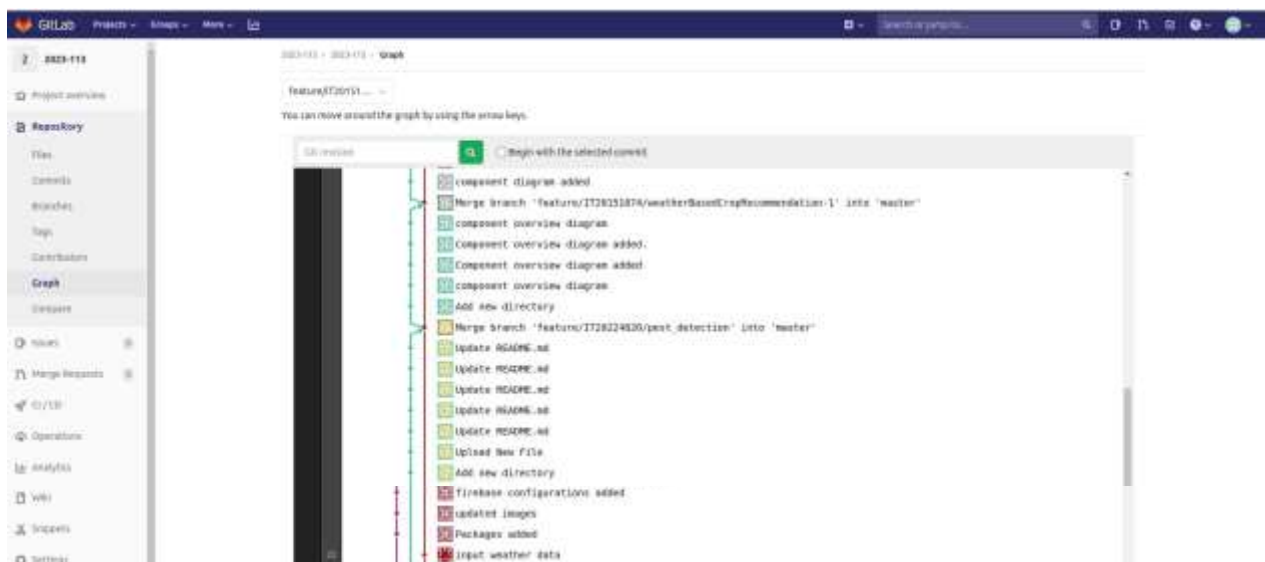
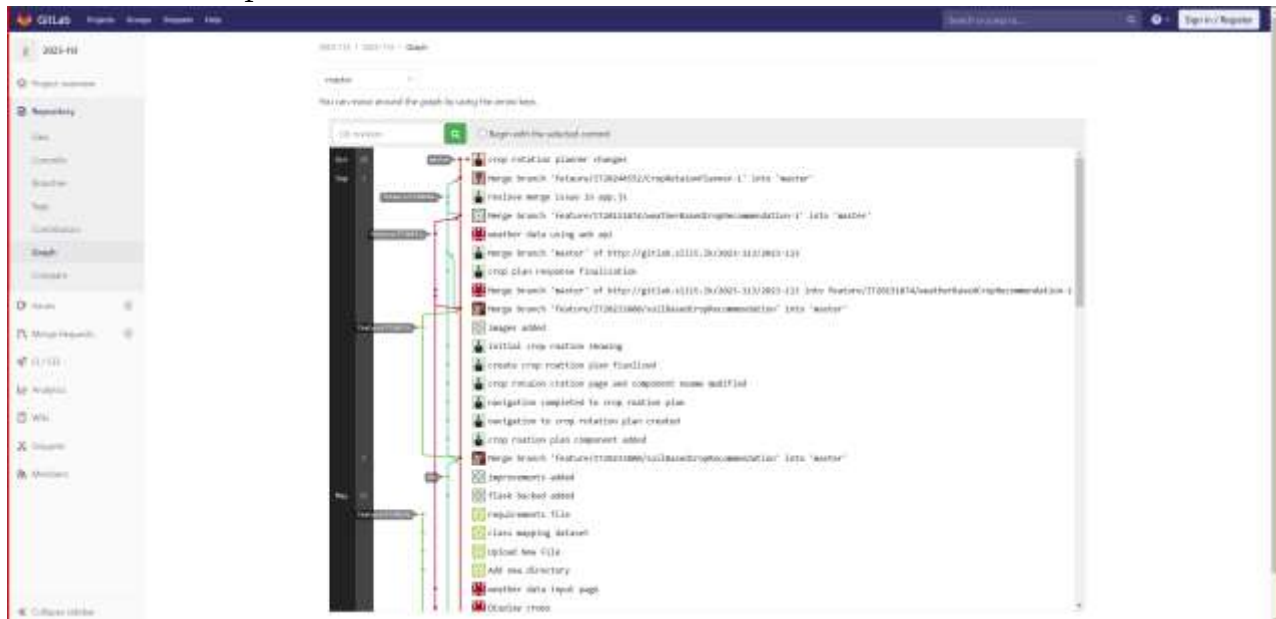


Figure 18 Gitlab master branch

8.2 GitLab Graph



8.3 Gitlab Contributors



Figure 24 Contributor commit representation