

Sri Lanka Institute of Information Technology



Status Document II **R24-059**

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IT

DECLARATION

We declare that this is our own work and this project report does not incorporate without acknowledgement any material previously submitted for a degree or diploma in any other university or Institute of higher learning and to the best of our knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgement is made in the text.

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.....11/09/2024.....

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Test Cases

Test Case 1: Successful Prediction Form Submission

Test Case 1	Successful Prediction Form Submission
Scenario	The user fills in all fields in the prediction form and submits the data.
Precondition	The form must have input fields for expected oil production and production date. The submit button should be enabled when all fields are filled.
Action	The user enters valid data in all form fields and clicks the submit button.
Expected Outcome	<ul style="list-style-type: none">• The form data is sent as a POST request to the /coco/predict/ endpoint.• A loading spinner appears during the request.• After the response is received, the predicted values for Coconut Water, Coconuts, Kurutu, Oil Cake, and Shell are displayed on the frontend.• The submit button is re-enabled after the response.

Test Case 2: Missing Field in Prediction Form Submission

Test Case 1	Missing Field in Prediction Form Submission
Scenario	The user attempts to submit the prediction form without filling in all the required fields.
Precondition	The form should have proper validation logic to ensure that all fields are filled before submission.
Action	The user leaves one or more fields blank and clicks the submit button.

Expected Outcome	<ul style="list-style-type: none"> The form should not be submitted. The frontend should display an error message (e.g., "Please fill in all required fields") next to the missing fields. The submit button remains disabled until all fields are completed. No API request is sent until all fields are validated.
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Test Case 3: Invalid Input Data in Prediction Form

Test Case 1	Invalid Input Data in Prediction Form
Scenario	The user enters invalid data in one or more fields in the prediction form (e.g., entering text instead of numbers).
Precondition	The form should have front-end validation to restrict input types (e.g., number fields for numeric values).
Action	The user enters invalid data (e.g., letters in the oil production field) and clicks the submit button.
Expected Outcome	<ul style="list-style-type: none"> The form displays an inline validation error, prompting the user to enter valid data (e.g., "Please enter a valid number"). The form is not submitted until the user corrects the input. No API request is sent until all input fields contain valid data

UI Design



Figure 1: Ui 1

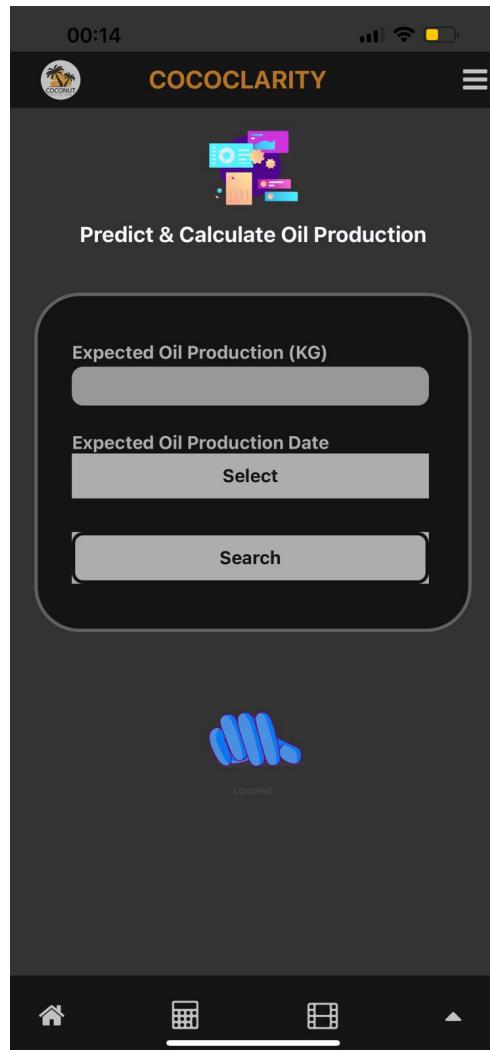


Figure 2 : Ui2

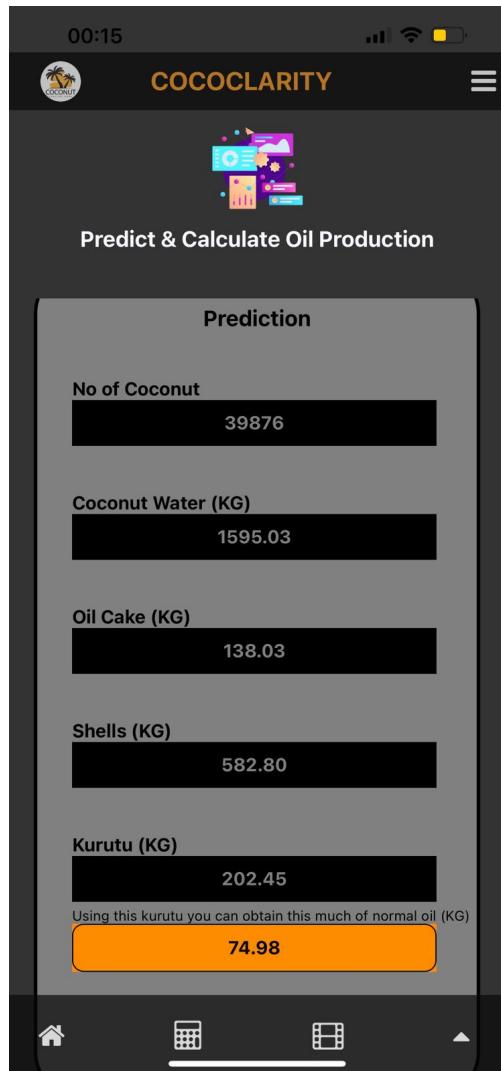


Figure 3:Ui3

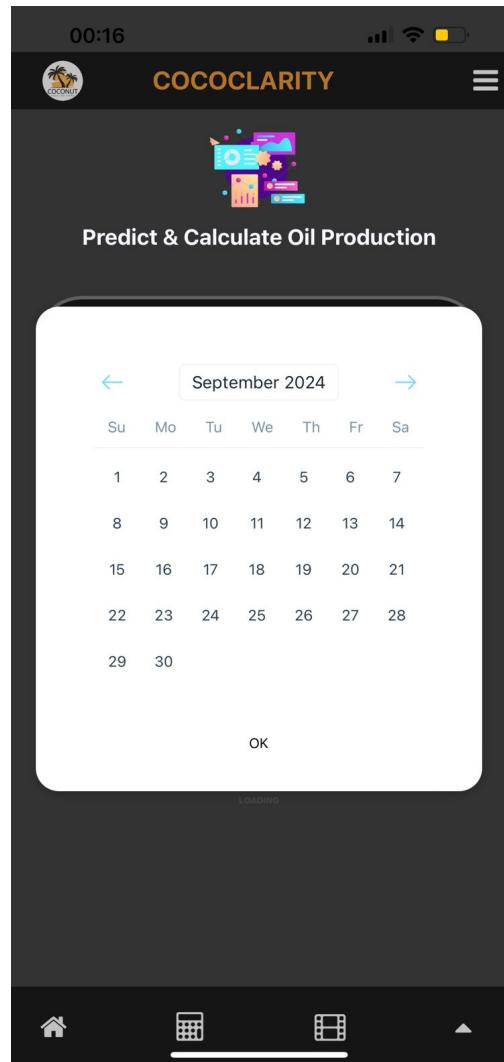


Figure 4 : Ui4

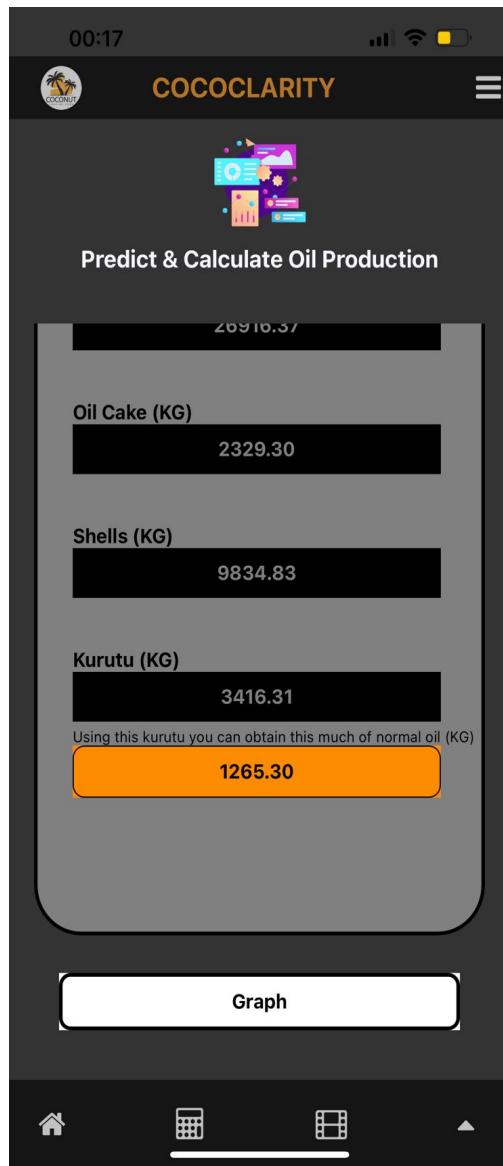


Figure 5 :Ui 5

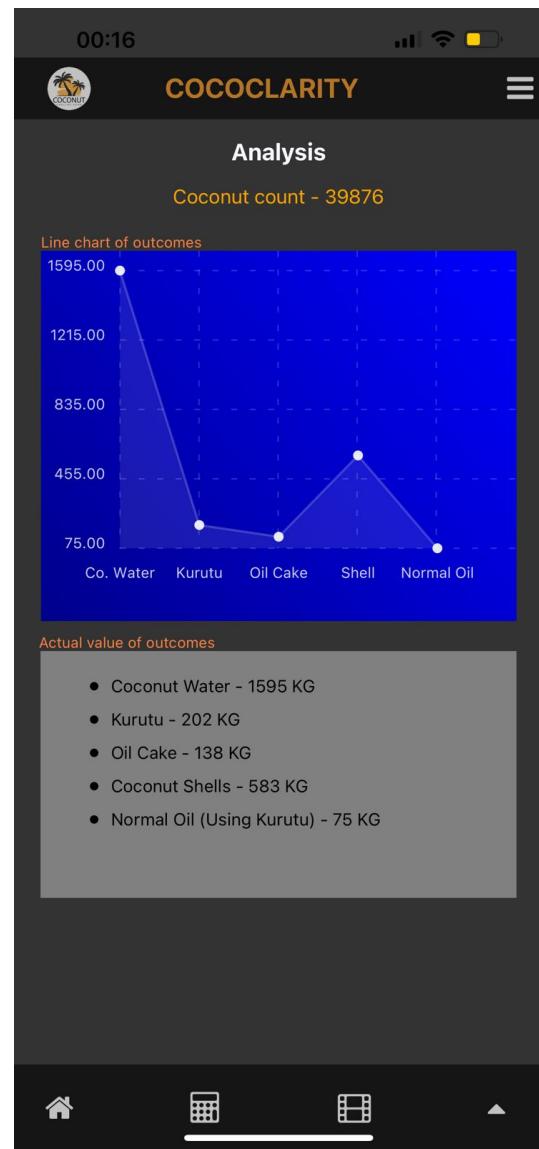


Figure 6 :Ui6

Team Communication

The team chose Microsoft Teams as their primary communication channel, forming a dedicated Team with all four group members. We also used Zoom to communicate with supervisors, provide updates, and receive comments on the project's progress. Regular team conversations were arranged to discuss, share knowledge, and plan.

The crew also used WhatsApp as an additional tool to stay in constant communication with their supervisors. This enabled timely updates and cooperation between the supervisor and co-supervisor, ensuring that everyone was informed and on the same page throughout the project.

Teams Channel

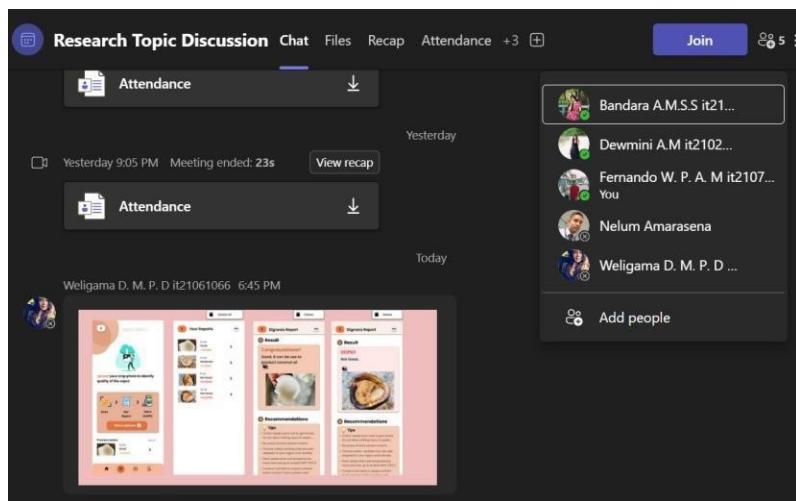


Figure 7 :Teams Channel

Teams Calls with the Research Team

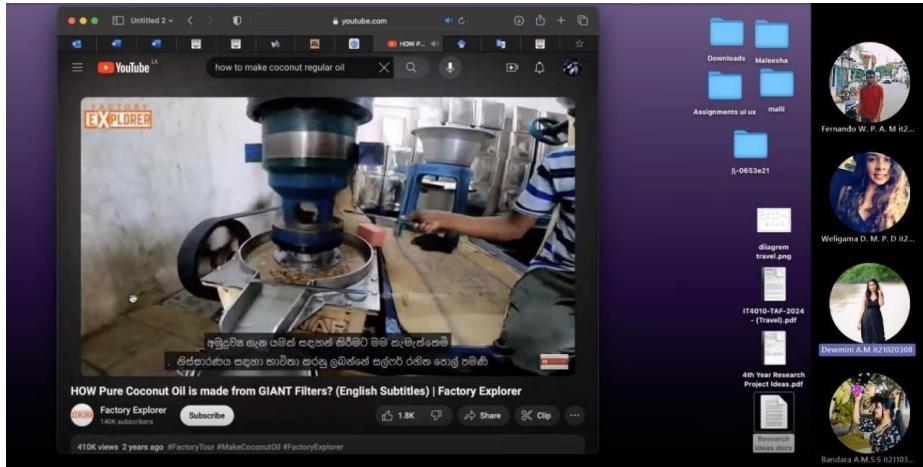


Figure 8 : Teams Calls with the Team 1

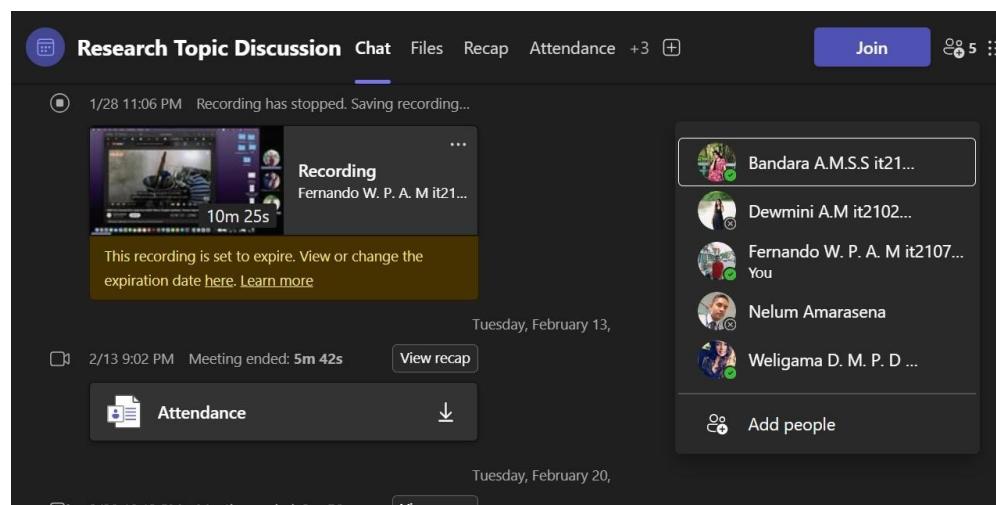


Figure 9 : Teams Calls with the Team

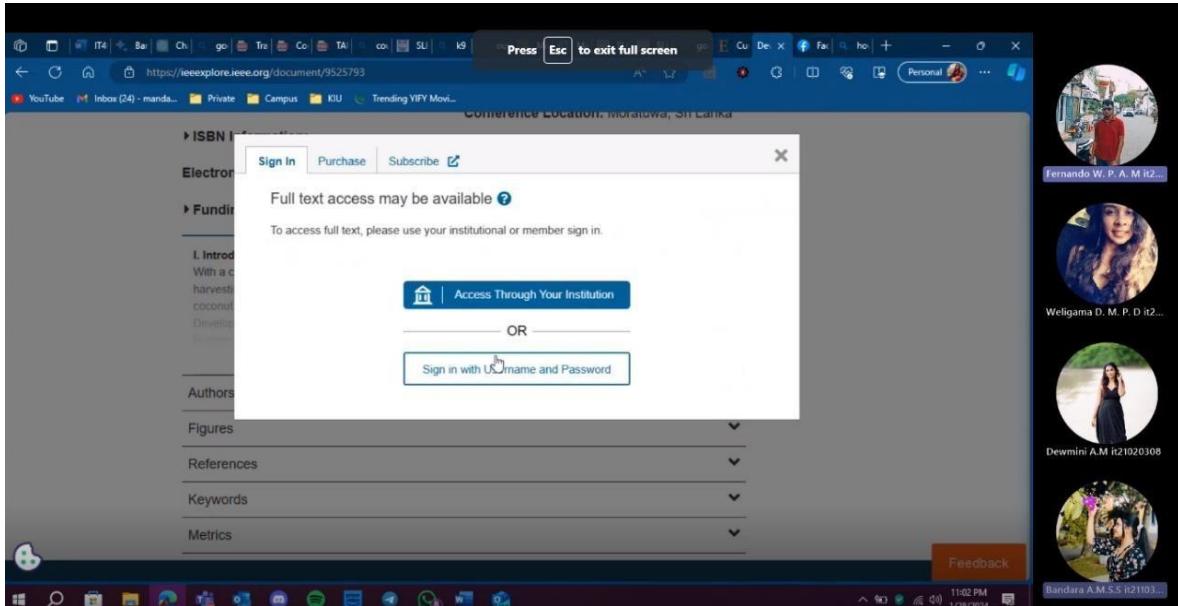


Figure 10 : Teams Calls with the Team

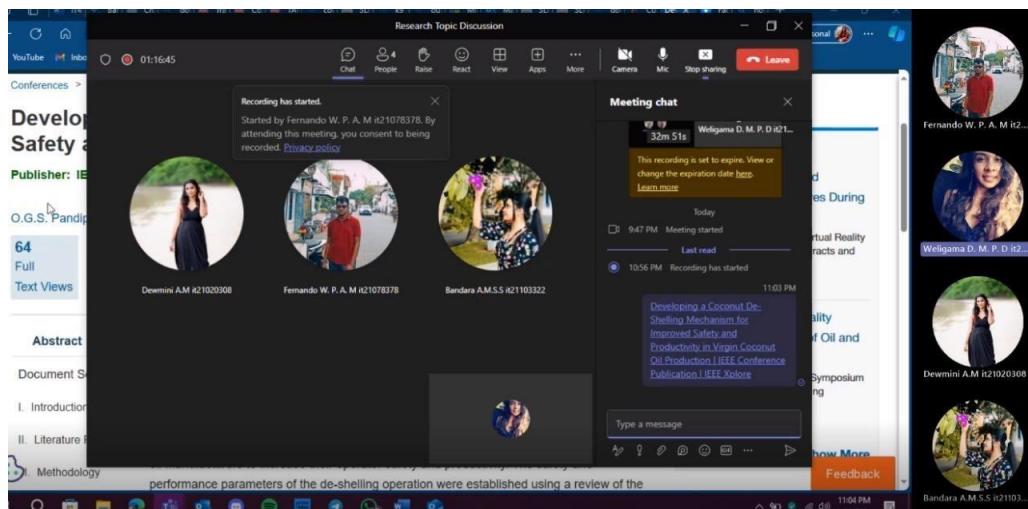


Figure 11 : Teams Calls with the Team

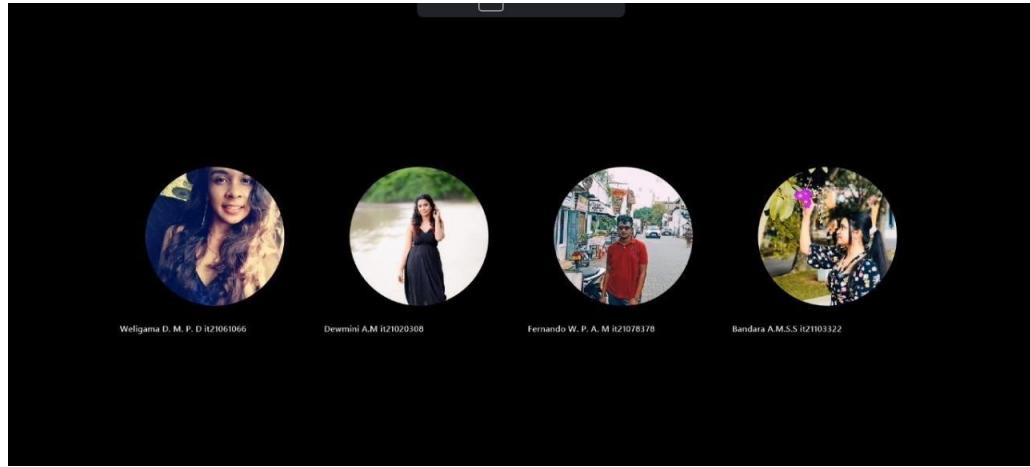


Figure 12 : Teams Calls with the Team

Online Calls with Supervisors

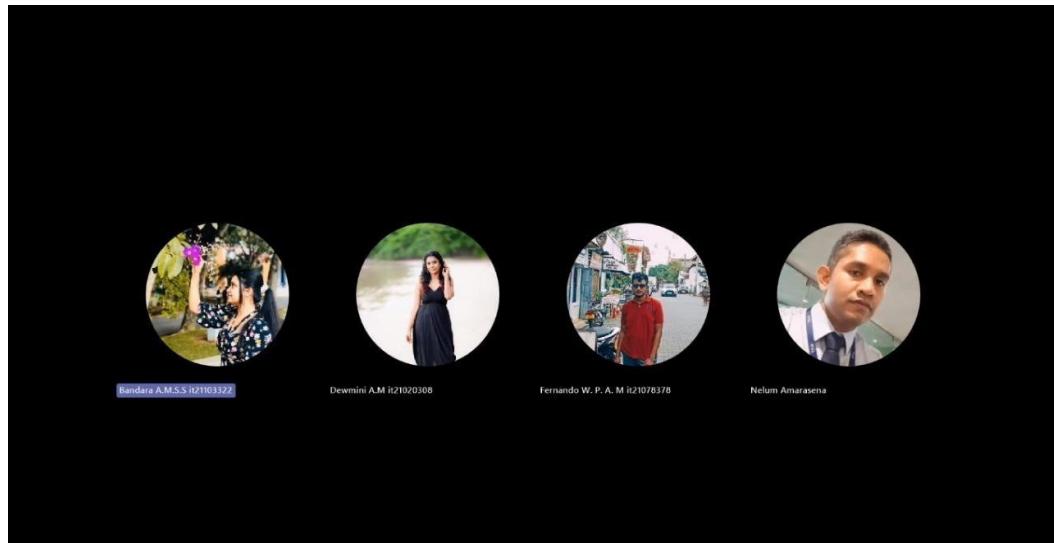


Figure 13 : Teams Calls with Supervisors Example

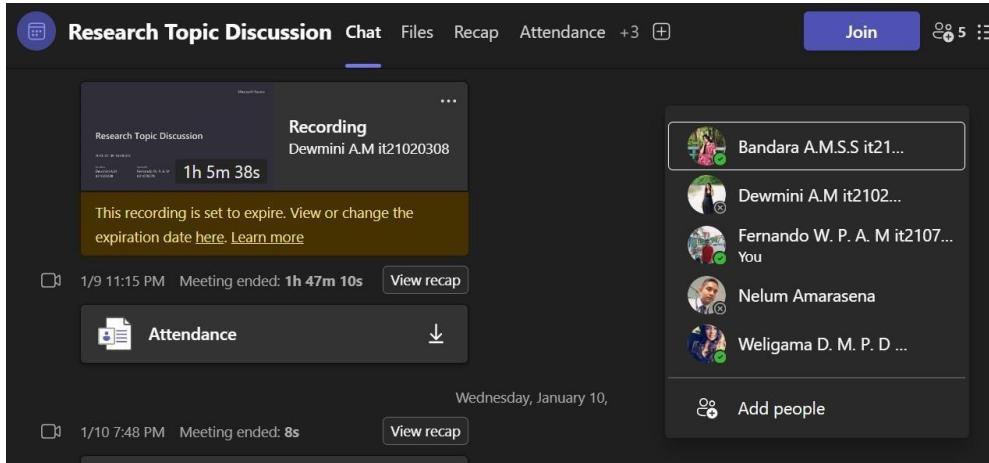


Figure 14 : Teams Calls with Supervisors Example

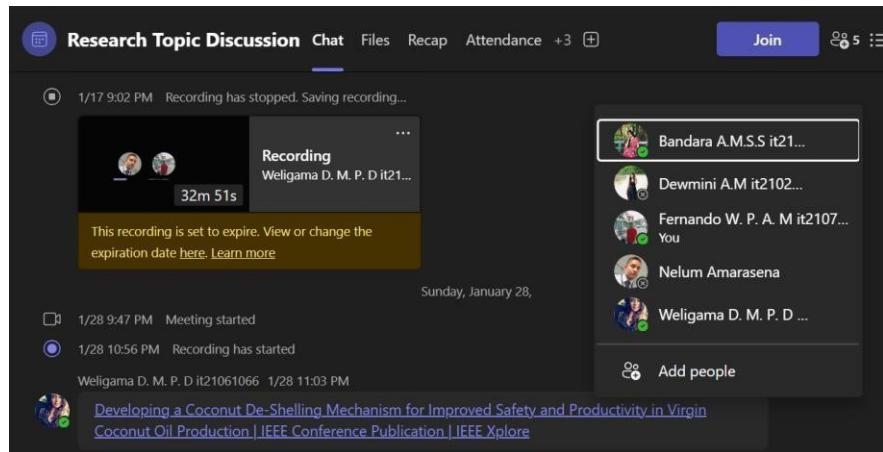


Figure 15 : Teams Calls with Supervisors Example

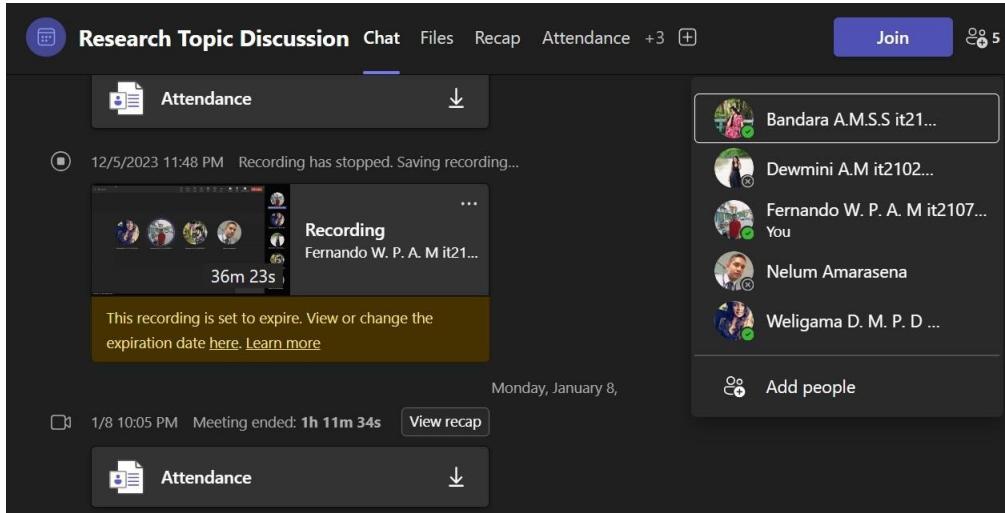


Figure 16 : Teams Calls with Supervisors Example

Phone Calls with External Supervisor

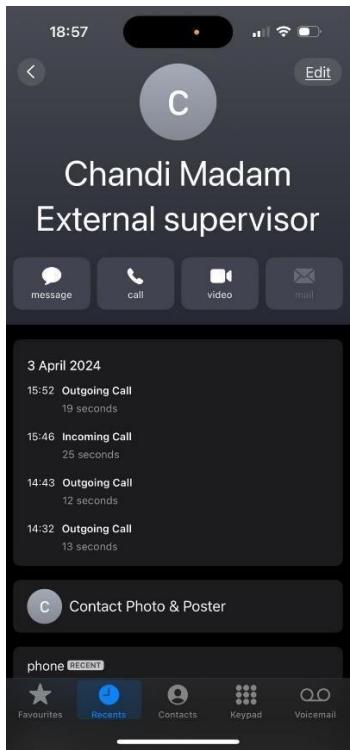


Figure 17 : Phone Calls with External Supervisor

Phone Calls with CDA Officers

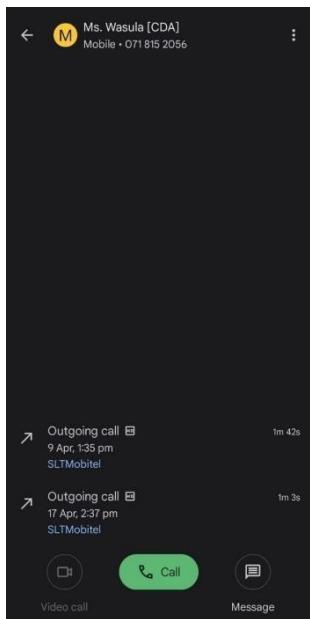


Figure 18 : Phone Calls with CDA Officers

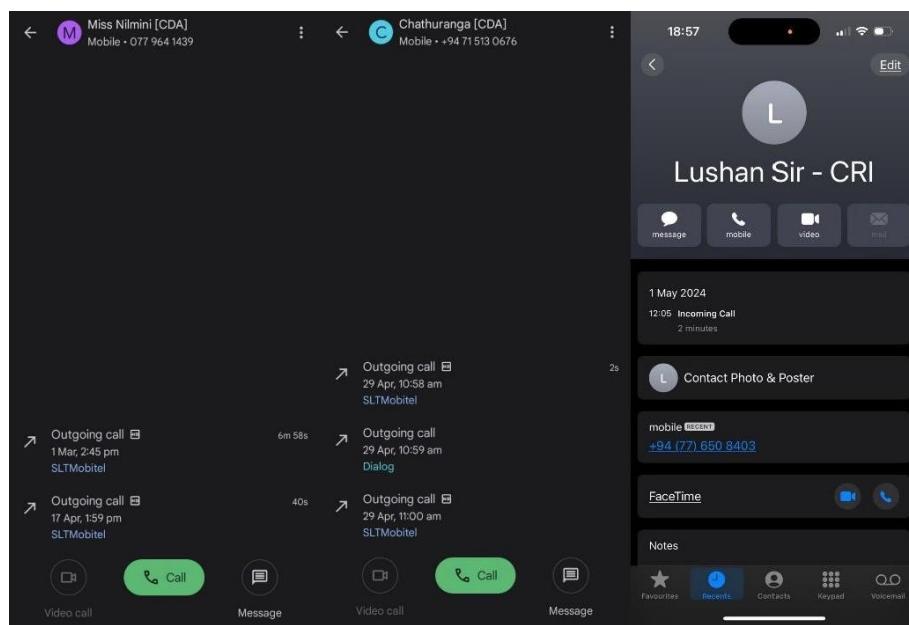


Figure 19 : Phone Calls with CDA Officers

Physical Meetings with Group Members



Figure 20 : Physical Meetings with Team Members

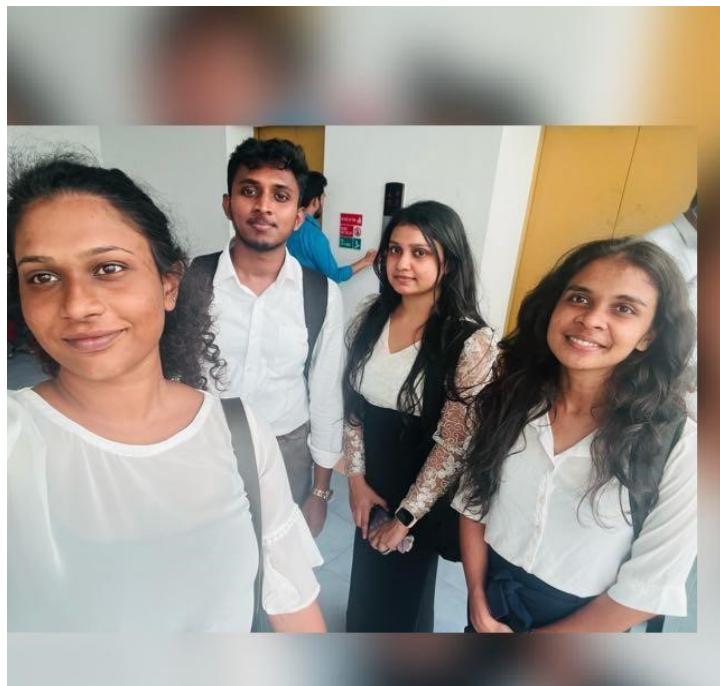


Figure 21 : Physical Meetings with Team Members

WhatsApp Group Creation



Figure 22 : WhatsApp Group



Figure 23 : Whatsapp Group Creation

WhatsApp Group Call

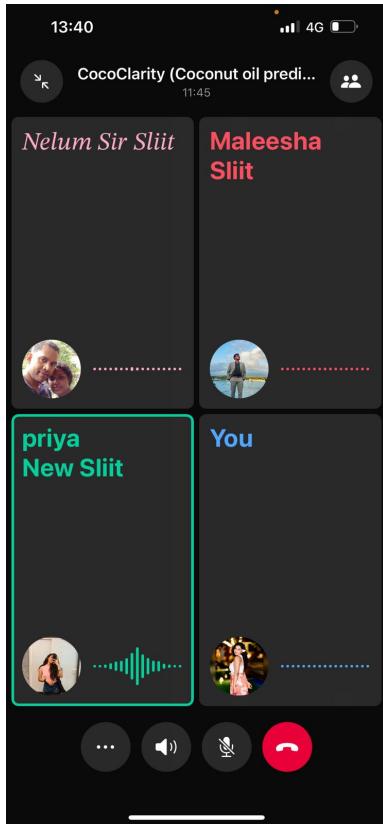


Figure 24 : Whatsapp group calls 1

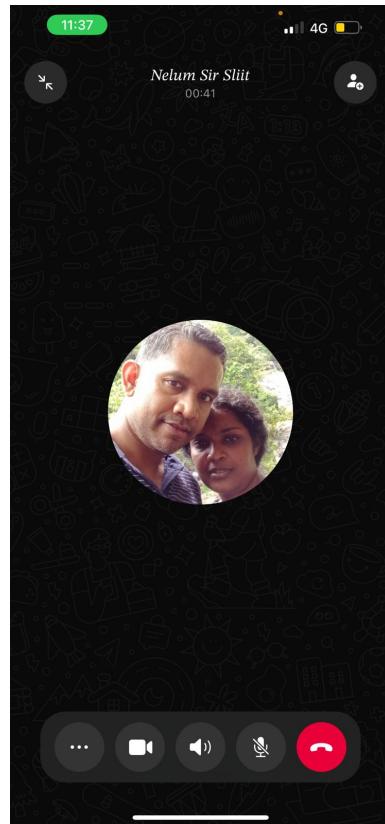


Figure 25 : Whatsapp call

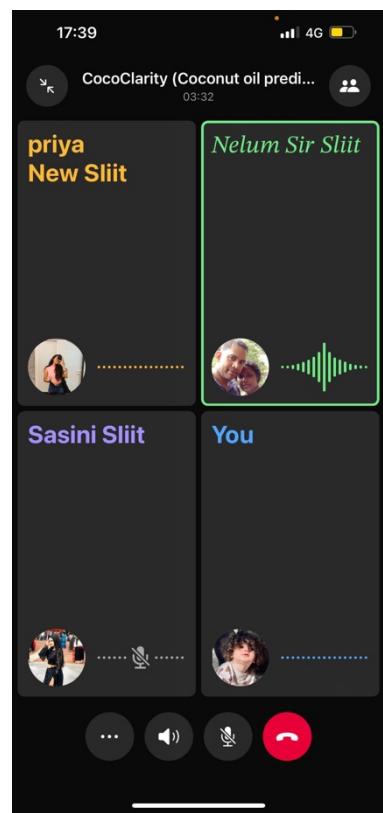


Figure 26 : Whatsapp group call

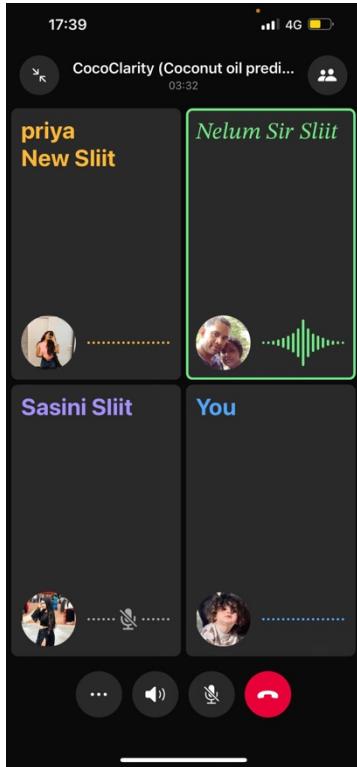


Figure 27 : Whatsapp group call

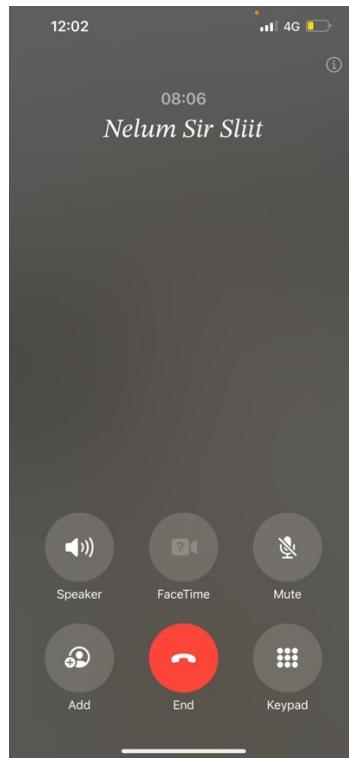


Figure 28 : Call with supervisor

Project Timeline

A Gantt chart is a visual tool used in project management to show the timeline of a project. It displays the start and finish dates of the various elements of a project, such as tasks, milestones, and phases, as well as their dependencies.

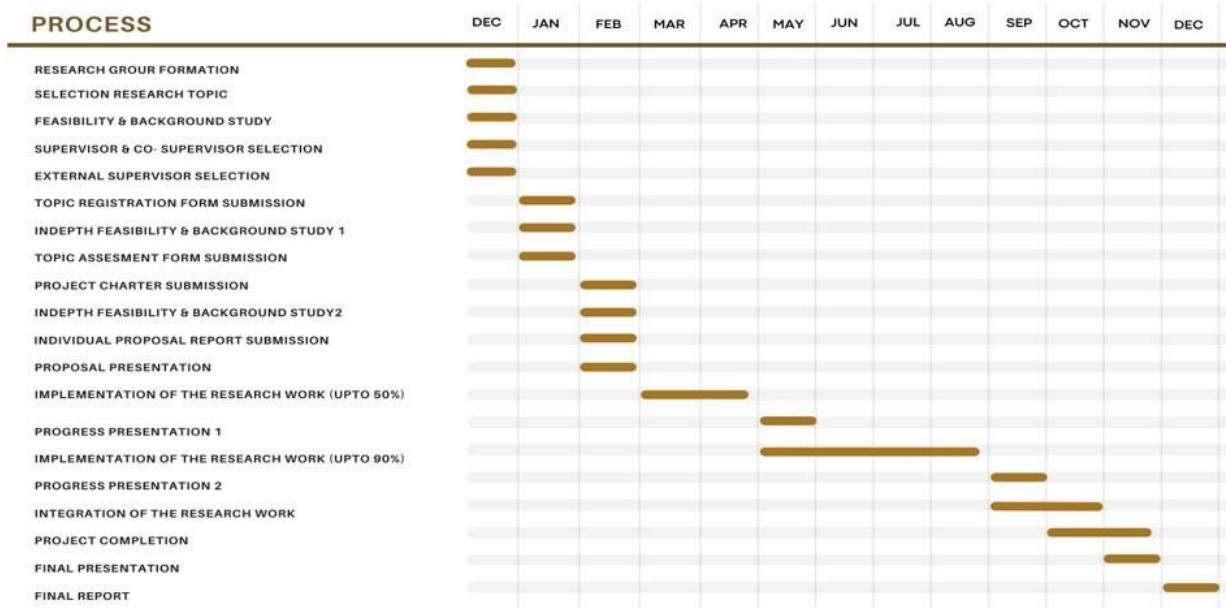


Figure 29 : Gantt Chart

Work Break-Down

A work breakdown structure (WBS) is a structured breakdown of a project into smaller, more manageable parts. It is divided into distinct deliverables and tasks that help streamline project planning, execution and project management.

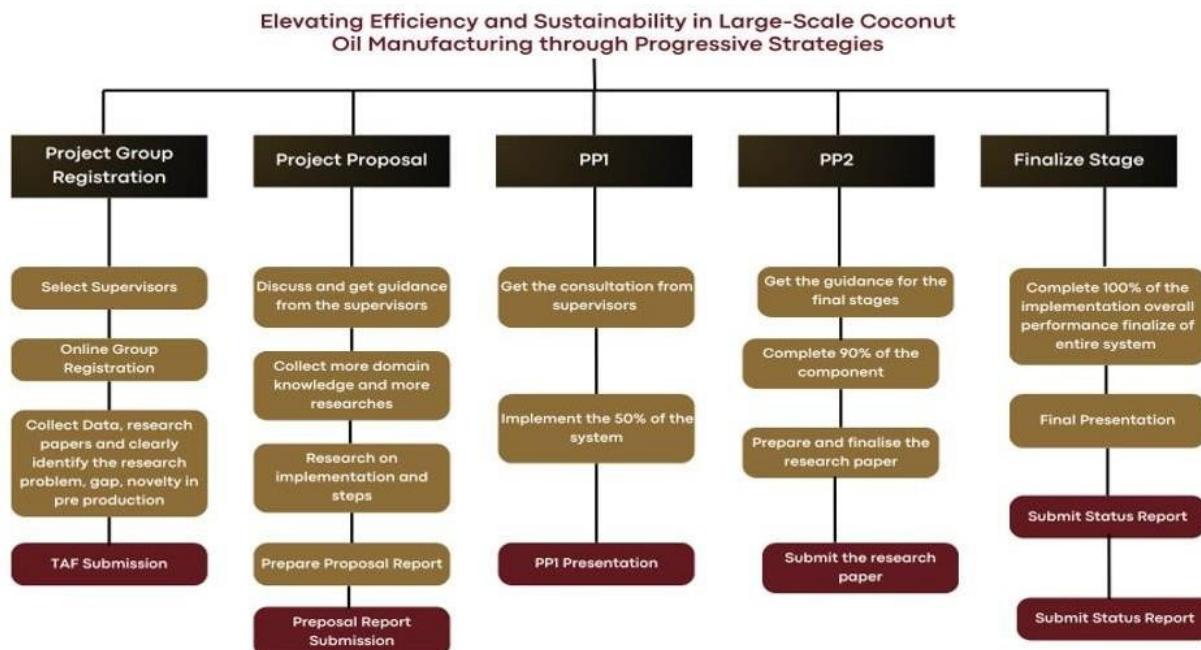


Figure 30 : Work Break-Down Structure