Sri Lanka Institute of Information Technology



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Information Technology

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System diagram

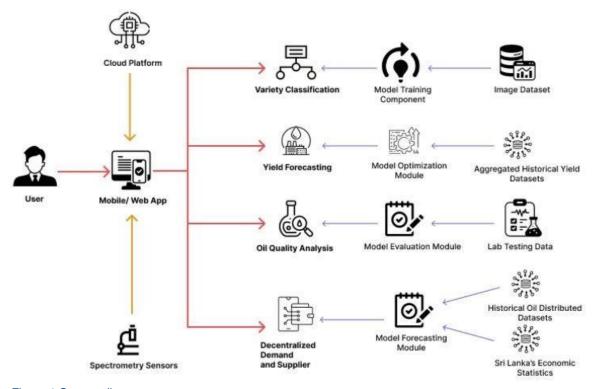


Figure 1-System diagram

Component: live coconut oil quality measuring feature

Progress

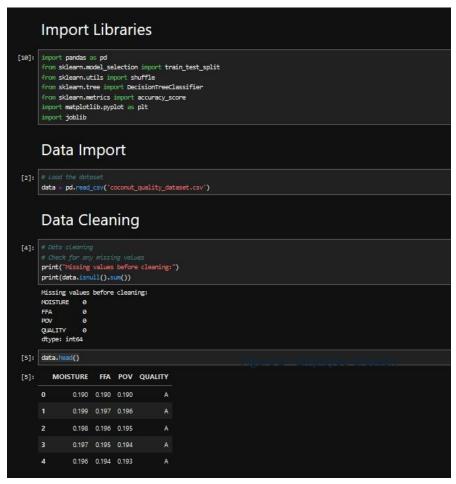


Figure 2-import libraries

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coconut_quality_dataset.csv
      0.6,0.4,5,6
174
      0.41,0.81,3.1,C
175
      0.42,0.82,3.2,C
176
      0.43,0.83,3.3,C
177
      0.44,0.84,3.4,C
178
      0.45,0.85,3.5,C
179
      0.46,0.86,3.6,C
      0.47,0.87,3.7,C
181
      0.48,0.88,3.8,C
182
      0.49,0.89,3.9,C
      0.5, 0.9, 4, C
      0.51,0.91,4.1,C
185
      0.52,0.92,4.2,C
      0.53,0.93,4.3,C
      0.54,0.94,4.4,C
      0.55,0.95,4.5,C
189
      0.56,0.96,4.6,C
190
      0.57,0.97,4.7,C
191
      0.58,0.98,4.8,C
192
      0.59,0.99,4.9,C
193
      0.6,1,5,C
      0.211,0.231,2.101,B
194
195
      0.212,0.232,2.102,B
196
      0.213,0.233,2.103,B
197
      0.214,0.234,2.104,B
      0.215,0.235,2.105,B
198
      0.216,0.236,2.106,B
199
      0.217,0.237,2.107,B
      0.218,0.238,2.108,B
      0.219,0.239,2.109,B
      0.22,0.24,2.11,B
      0.221,0.241,2.111,B
      0.222,0.242,2.112,B
      0.223,0.243,2.113,B
```

Figure 3-dataset

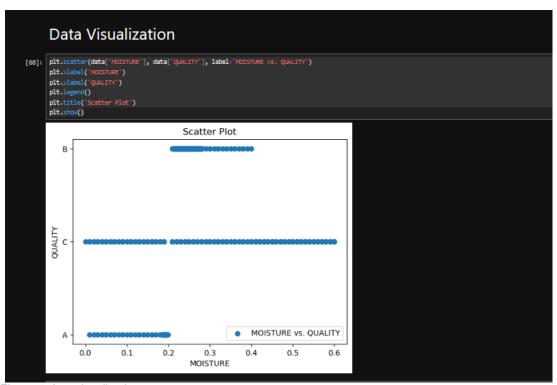


Figure 4-data visualization

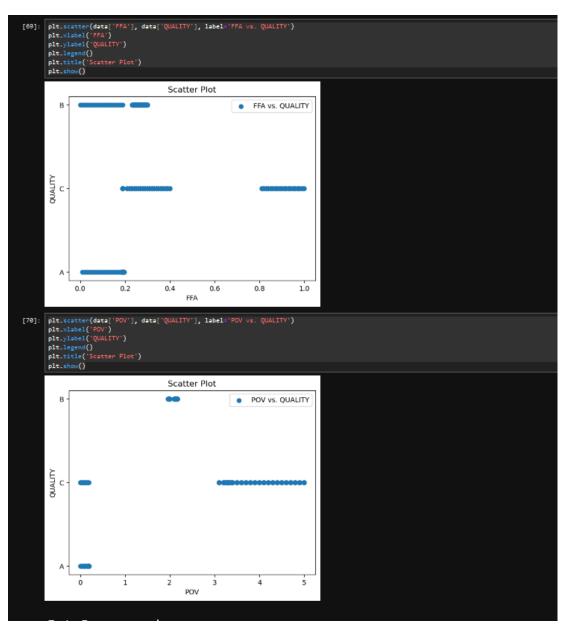


Figure 5-visulization.

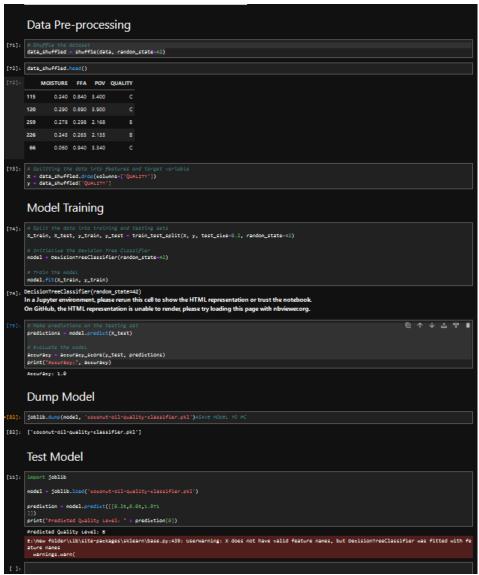


Figure 6-model training

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.

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Teams Channel

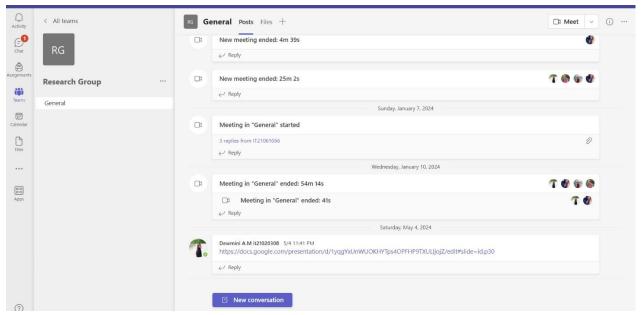


Figure 7-teams channel creation

Teams Calls with the Research Team

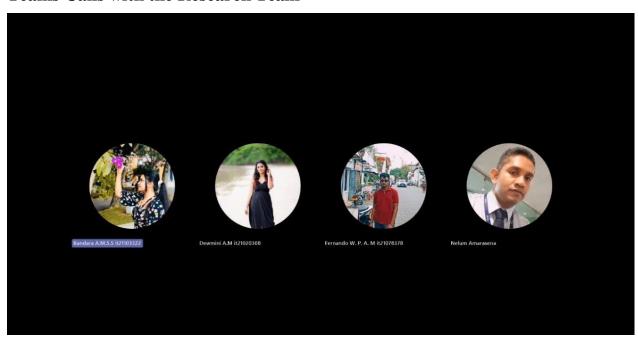


Figure 8-overview of Team Calls and Communication

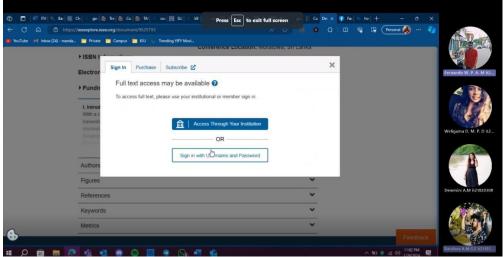


Figure 9

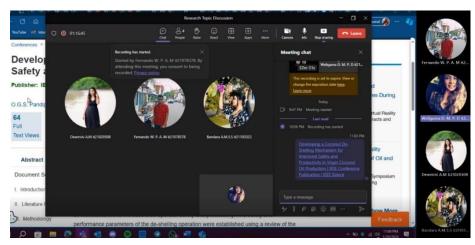
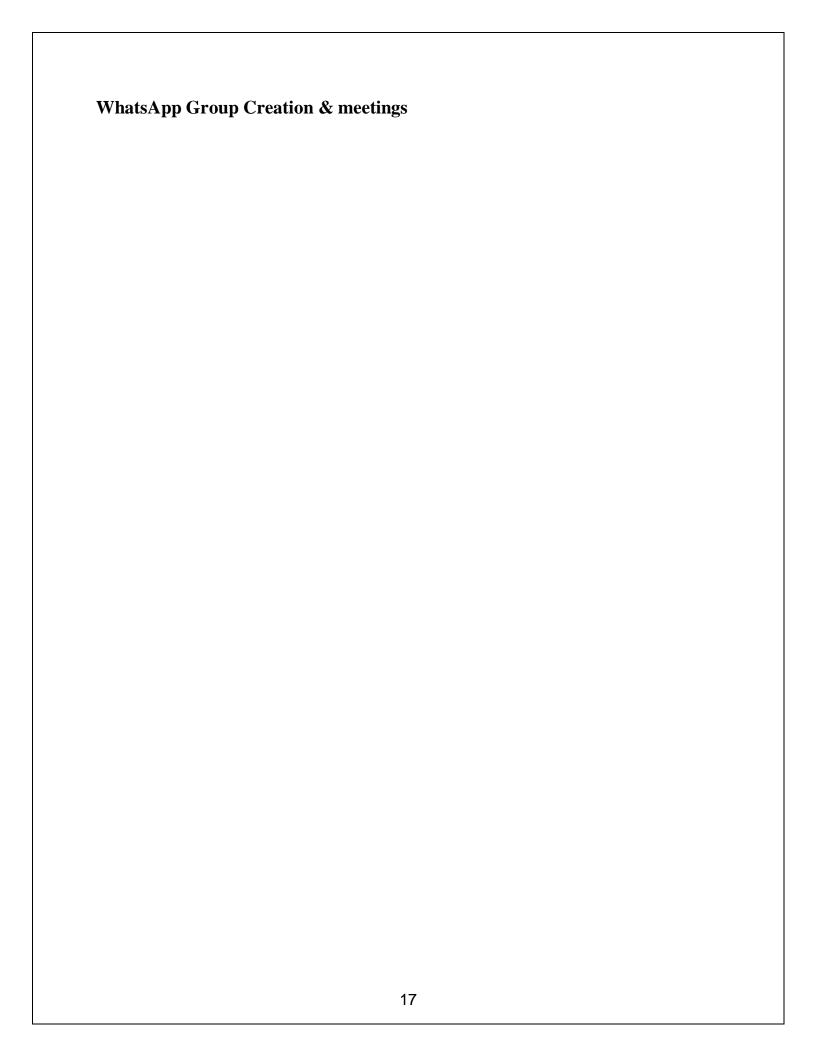


Figure 10-team members call sample 1



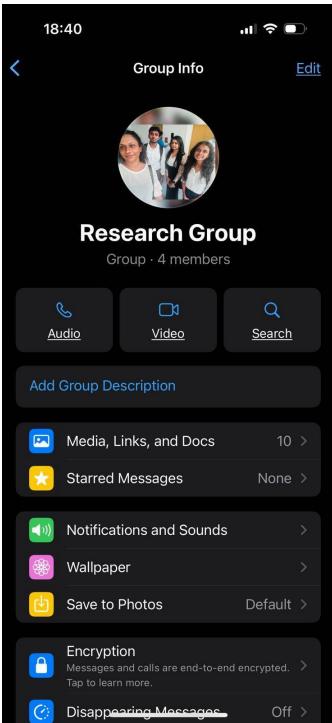


Figure 11-whatsapp group creation

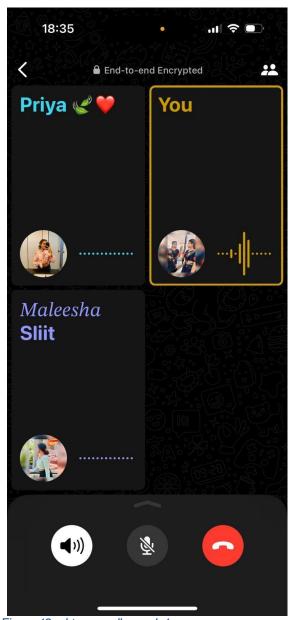


Figure 12-whtsapp call sample1



Figure 13-whtsapp call sample2

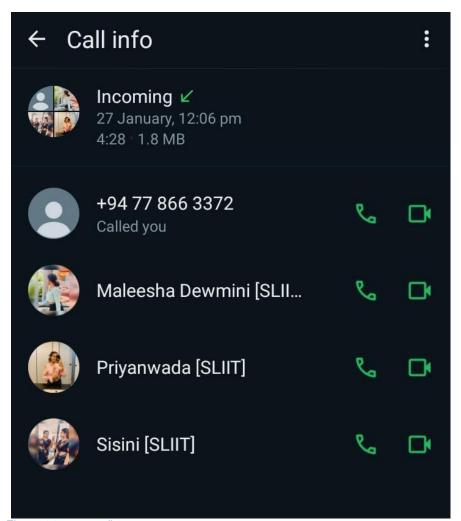


Figure 14-group call 3



Figure 15-group call 4

Online Calls with Supervisor

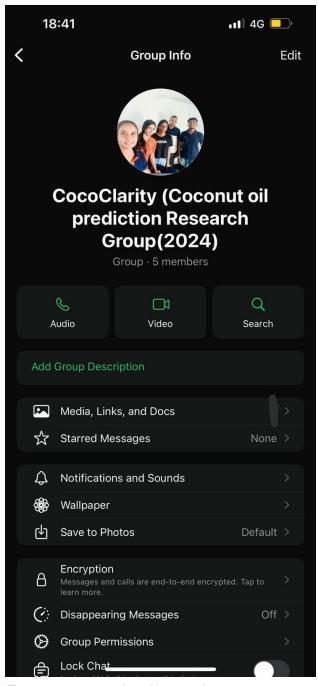


Figure 16-group creation with supervisor



Figure 17-discusson with supervisor

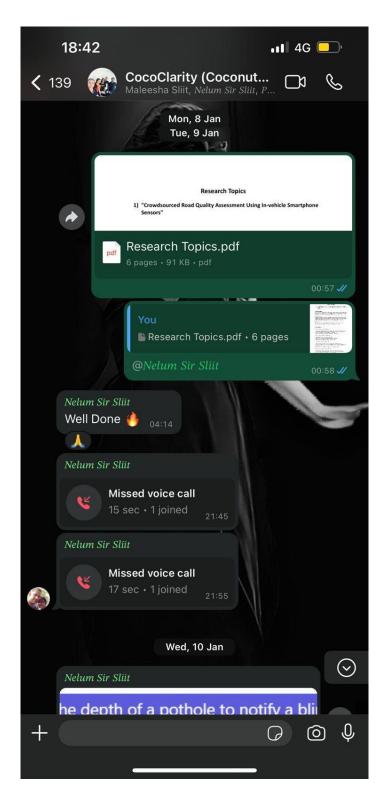


Figure 18-discusson 2

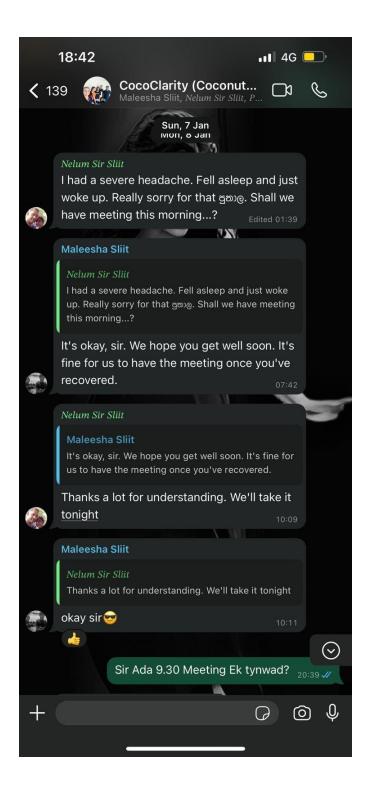


Figure 19-discusson3.

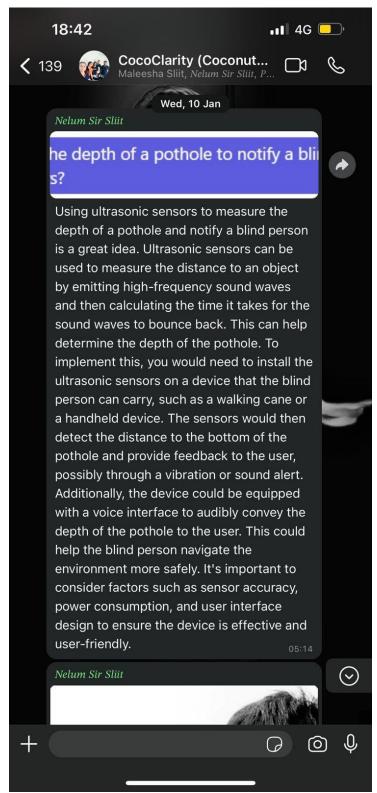


Figure 20-supervisor advising

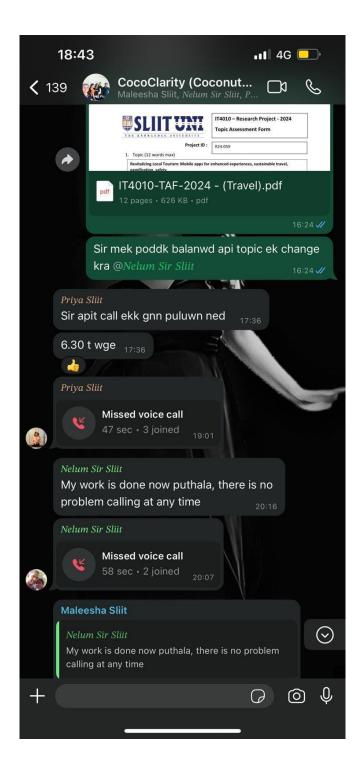


Figure 21-discusson 5

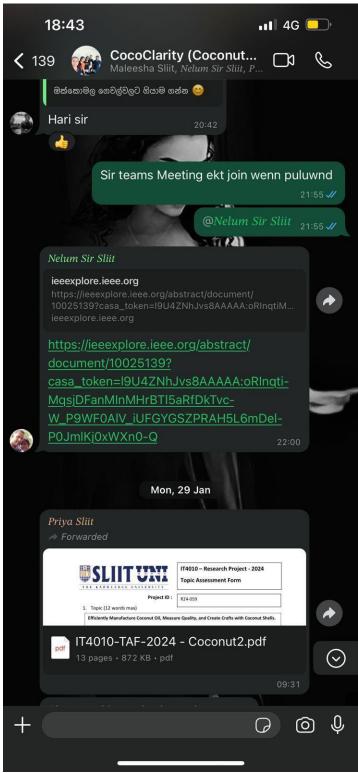


Figure 22-discussion with supervisor



Figure 23-call with supervisor

External supervisor meetings

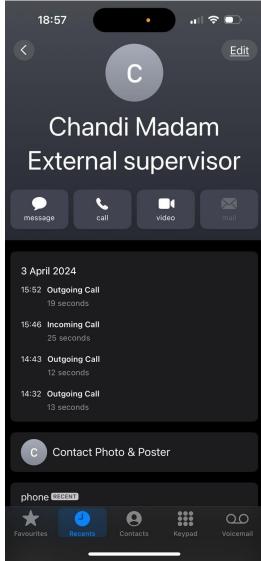


Figure 24-call with external supervisor



Figure 25-discuss information with CRI officer

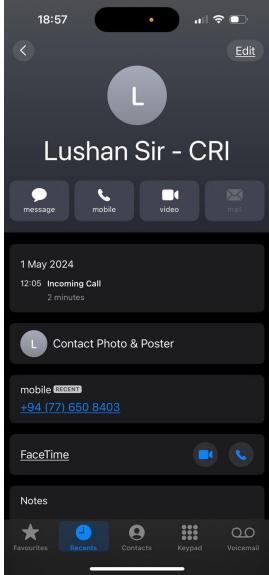


Figure 26-call with CRI officer



Figure 27-meet with CRI officer



Figure 28-meeting with group members



Figure 29-CRI



Figure 30-CRI lab



Figure 31-physical meet up with external supervisor

Teams' meetings with supervisor

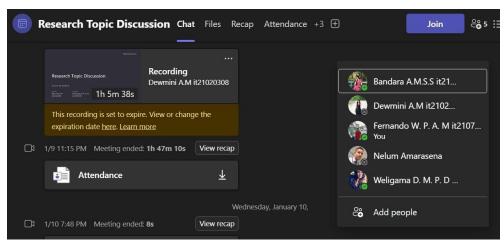


Figure 32-teams meeting with supervisor1

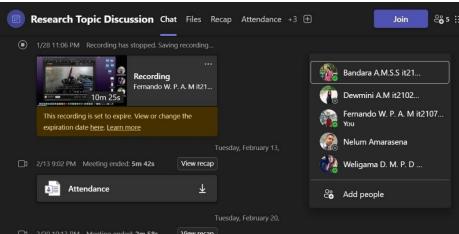


Figure 33-teams meeting with supervisor2

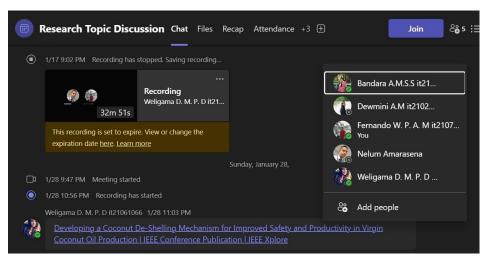


Figure 34-teams meeting with supervisor3



Figure 35--teams meeting with supervisor4

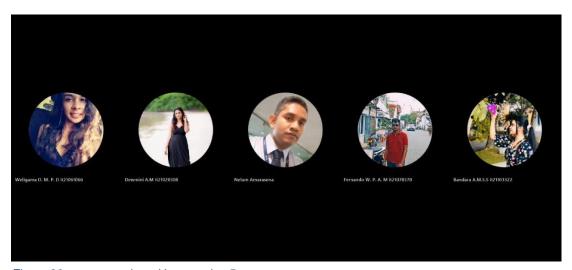


Figure 36-teams meeting with supervisor5

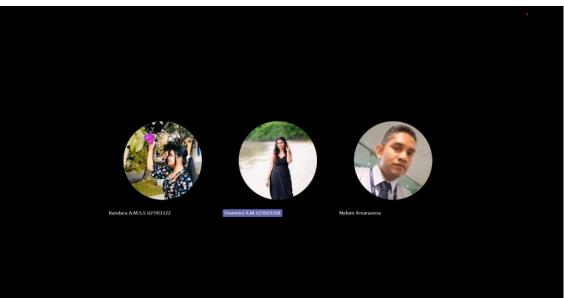


Figure 37-teams meeting with supervisor6

Project Timeline

A Gantt chart is a visual aid for project management that is used to display a project's chronology. It shows the beginning and ending dates of all project components, including tasks, milestones, and stages, along with the dependencies between them.

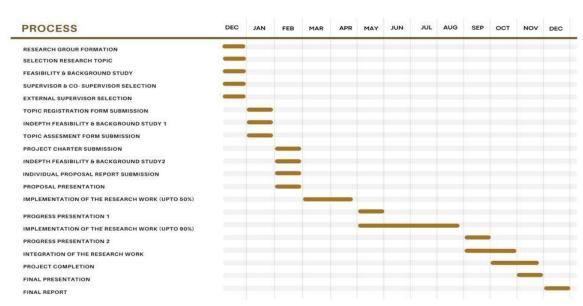


Figure 38-gantt chart

Work Break-Down

A project is broken down into smaller, easier-to-manage components using a hierarchical process called a work breakdown structure, or WBS. It facilitates project planning, execution, and control by breaking the project up into distinct deliverables and work packages.

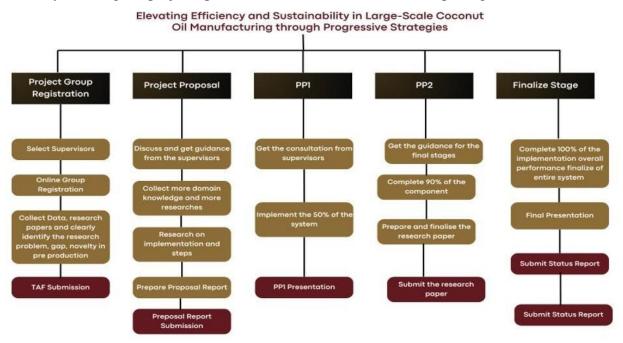


Figure 39-Work Break-Down Structure