Sri Lanka Institute of Information Technology Sri Lanka

Detection of Energy Consumption and Performance of Third-party Applications using Machine Learning

22_23 J 87

Status Document 2



| Student ID | Student Name | | | | | |
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Table of Contents

| 01. User Workload | 4 |
|--|----|
| Documentation work – Individual Reports | 4 |
| Documentation work – Group Reports | 4 |
| 02. Project Management with Tools | 5 |
| 02.1. Screenshots – MS Teams, Google Meet and WhatsApp Calls | 5 |
| 02.2. Screenshots – MS Planner Project View | 8 |
| 02.2.A. User Tasks Allocation - Actual | 8 |
| 02.2.B. Project Overall View with Charts | 11 |
| 03. Gantt chart | 13 |
| Predicted | 13 |
| Actual | 13 |
| 04. Work Breakdown Structure | |
| 05. 90% Completion of the Project - Screenshots | 13 |

01. User Workload

Completed individual components

- Detect Java File Code Metrics For Static Code Analysis
- Detect Java Project Code Analysis for Code Smell Prediction.
- Detection of Code Smells in the Java program Using Code Metrics in the Static Level Using the Identified Code Metrics in the Code

Documentation work – Individual Reports

- Project Cover Sheet
- Project Charter Document
- Project Proposal Report
- Status Document 1
- Individual Final Report
- Status Document 2

Documentation work – Group Reports

- Topic Evaluation Form
- Project Proposal Presentation
- Progress Presentation 1 slides
- Progress Presentation 2 slides
- Research Paper
- Final Group Report
- Research Poster
- Log Book

02.Project Management with Tools

02.1. Screenshots - MS Teams, Google Meet and WhatsApp Calls

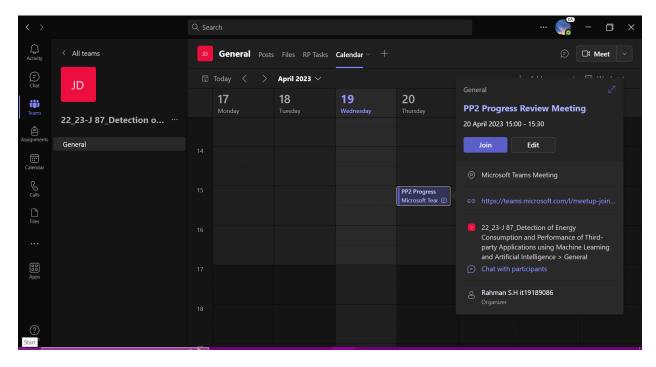


Figure 1 - MS Teams Calendar and Meetings

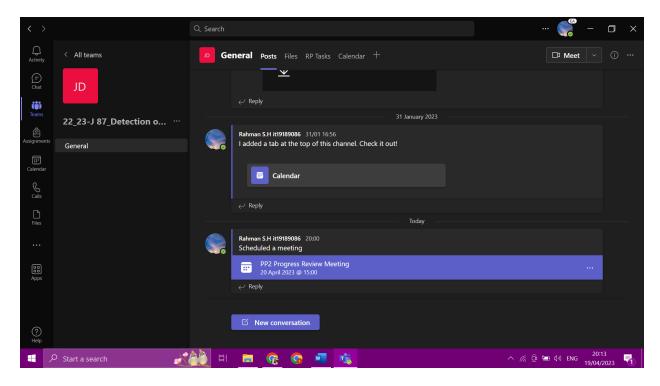


Figure 2 - MS Teams Calendar and Channel

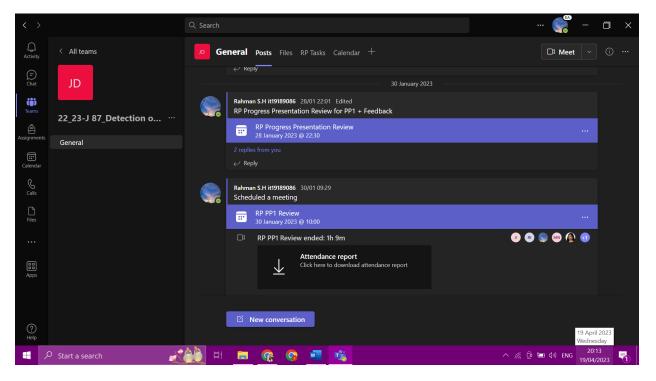


Figure 3 - MS Teams Calendar and Channel

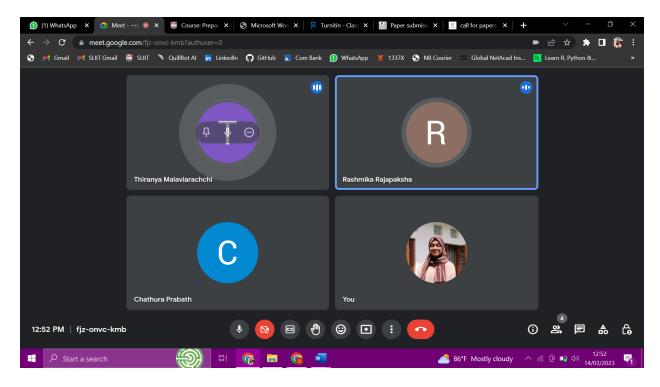


Figure 4 - Google Meet Sprint Meetings

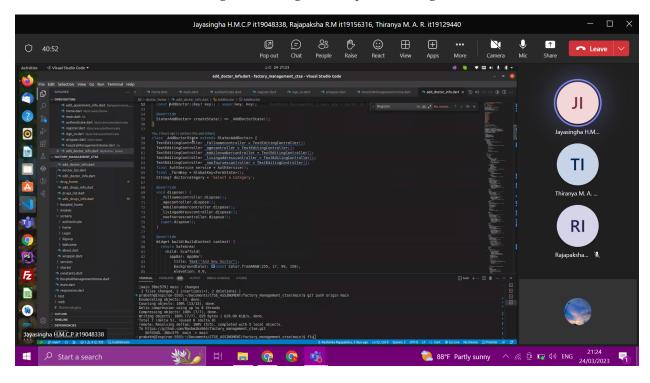


Figure 5 - MS Teams Project Implementation and Evaluation

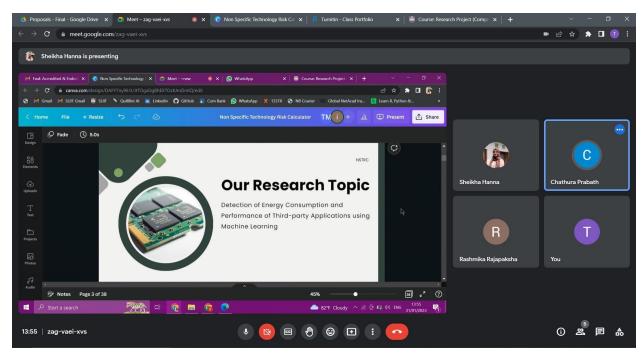


Figure 6 - Google Meet Progress Review 2 Practice



Figure 7 - WhatsApp Call Review with Co-Supervisor

02.2. Screenshots - MS Planner Project View

02.2.A. User Tasks Allocation

Data Collecting Tasks milestones

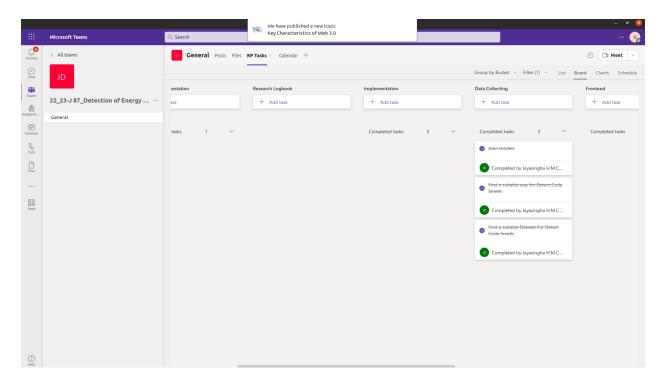


Figure 8 - MS Teams RP Board

Backend Development Tasks milestones

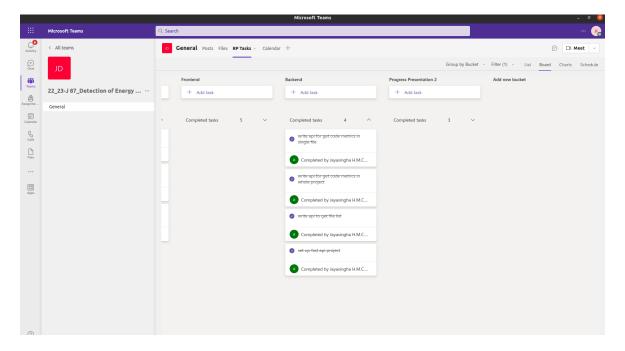


Figure 9 - MS Teams RP Board

Frontend Development Tasks milestones

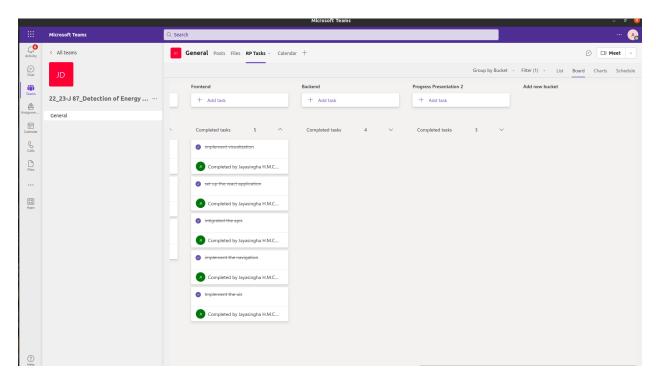


Figure 10 - MS Teams RP Board

02.2.B. Project Overall View with Charts

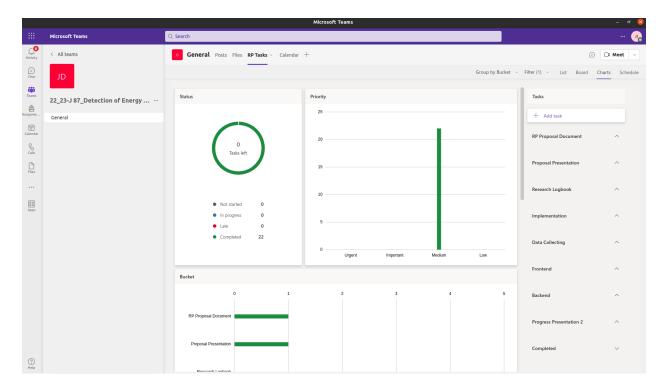


Figure 15 - MS Teams RP Chart View

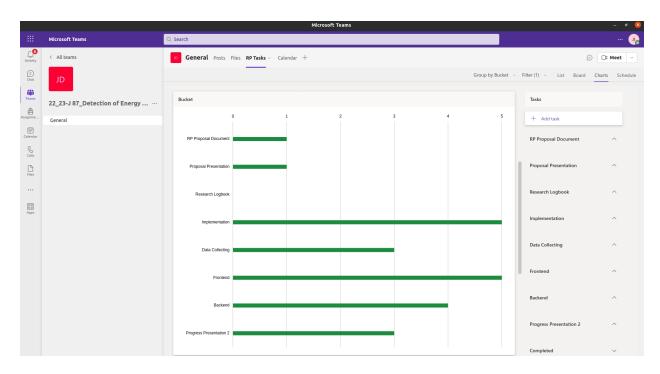


Figure 16 - MS Teams RP Chart View

03. Gantt chart

Predicted

| Column1 - | Column * | Column * | Column * | Column * | Column * | Column * | Column | Column * | Column1 * | Column1 * | Column1 * | Column1 * | Column12 |
|--|----------|-----------|----------|-----------|----------|----------|----------|----------|-------------|-----------|-----------|-----------|----------|
| Task | June | July | August | September | October | November | December | January | February | March | April | May | June |
| Identify a research problem | | | | | | | | | | | | | |
| Study about the reason for existing problem | | | | | | | | | | | | | |
| Gather requirements | | | | | | | | | | | | | |
| Feasibility studies | | | | | | | | | | | | | |
| Analyzing existing research according to scope | | | | | | | | | | | | | |
| Analyzing the requirements | | | | | | | | | | | | | |
| Topic evaluation and document preparation | | | | | | | | | | | | | |
| Helped a prepare a charter documentation | | | | | | | | | | | | | |
| Project proposal preparation | | | | | | | | | | | | | |
| Proposal presentation | | | | | | | | | | | | | |
| SRS document preparation | | | | | | | | | | | | | |
| Identify the core fucntion | | | | | | | | | | | | | |
| Implementation | | | | | | | | | | | | | |
| Progress presentation (50%) | | | | | | | | | | | | | |
| Database & web application development | | | | | | | | | | | | | |
| Testing evaluation | | | | | | | | | | | | | |
| Progress presentation (90%) | | | | | | | | | | | | | |
| System testing | | | | | | | | | | | | | |
| Final report presentation | | | | | | | | | | | | | |
| Final presentation and viva | | | | | | | | | | | | | |
| | | Completed | | | Not Cor | mpleted | | | In Progress | | | | |

Figure 18 - Predicted Gantt Chart of Progress

Actual



Figure 19 - Actual Gantt Chart of Progress

04. Work Breakdown Structure

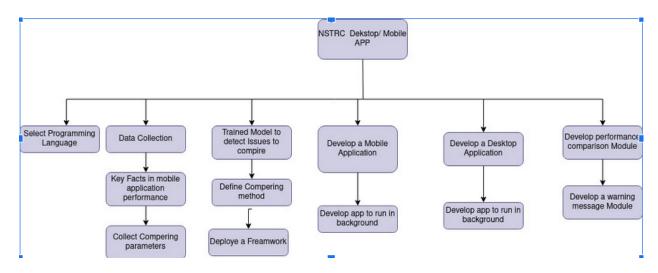


Figure 20 - Work Breakdown Structure of Component

05. 90% completion of the project - Screenshots



Figure 21 - NSTRC code analysis



Figure 22 - Code Metrics Detection Interface

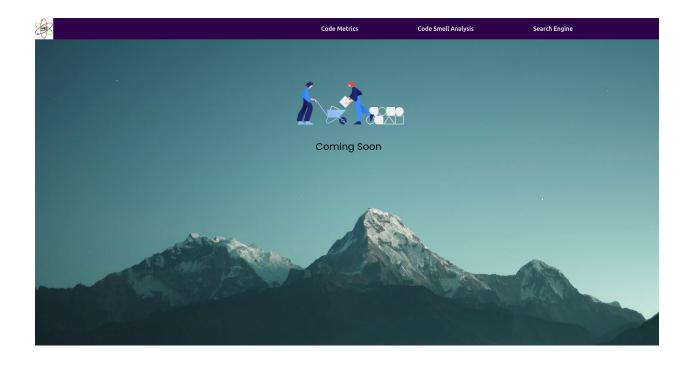


Figure 23 - Coming soon page