

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



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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

- Detection and initiation of the performance and compatibility test for CPU and RAM usage via the web and mobile application
- Demonstration of the CPU and RAM usage with multiple background applications on the web application.
- Demonstration of the order of mobile applications on their performance rate based on their RAM and storage consumption.
- Demonstration of the battery usage of the device based on application performance.
- Detection and demonstration of battery level usage alert system in the form of notification-based operation.

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

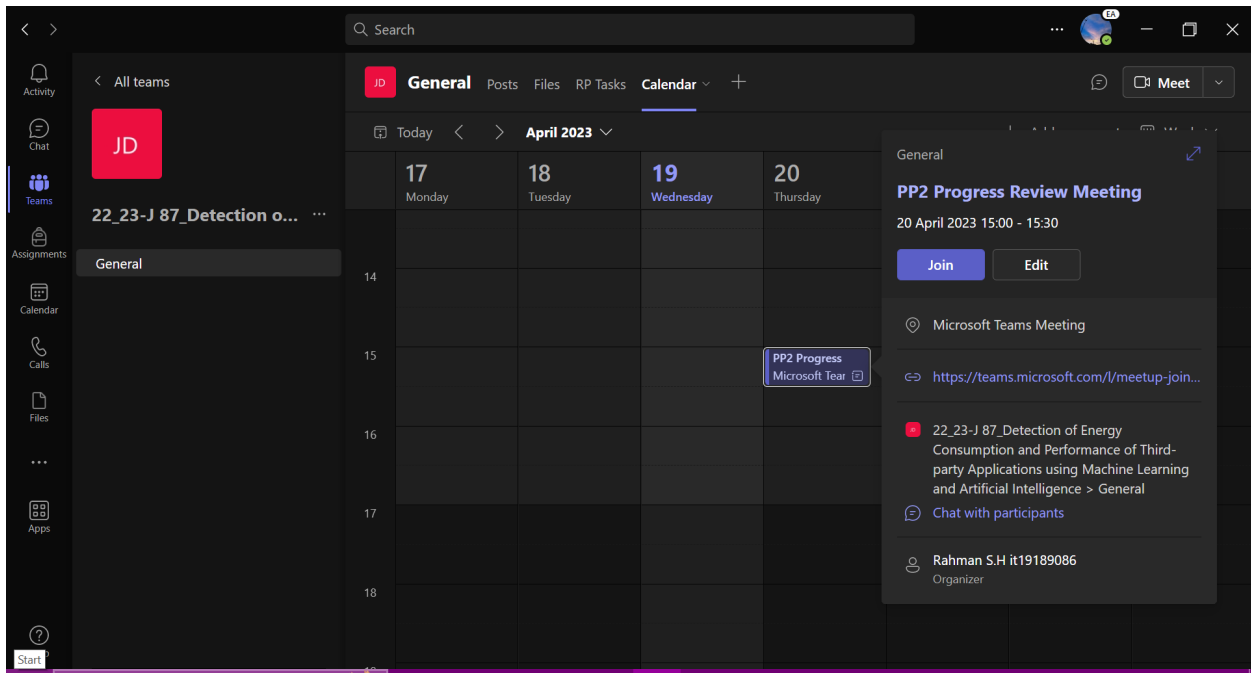


Figure 1 - MS Teams Calendar and Meetings

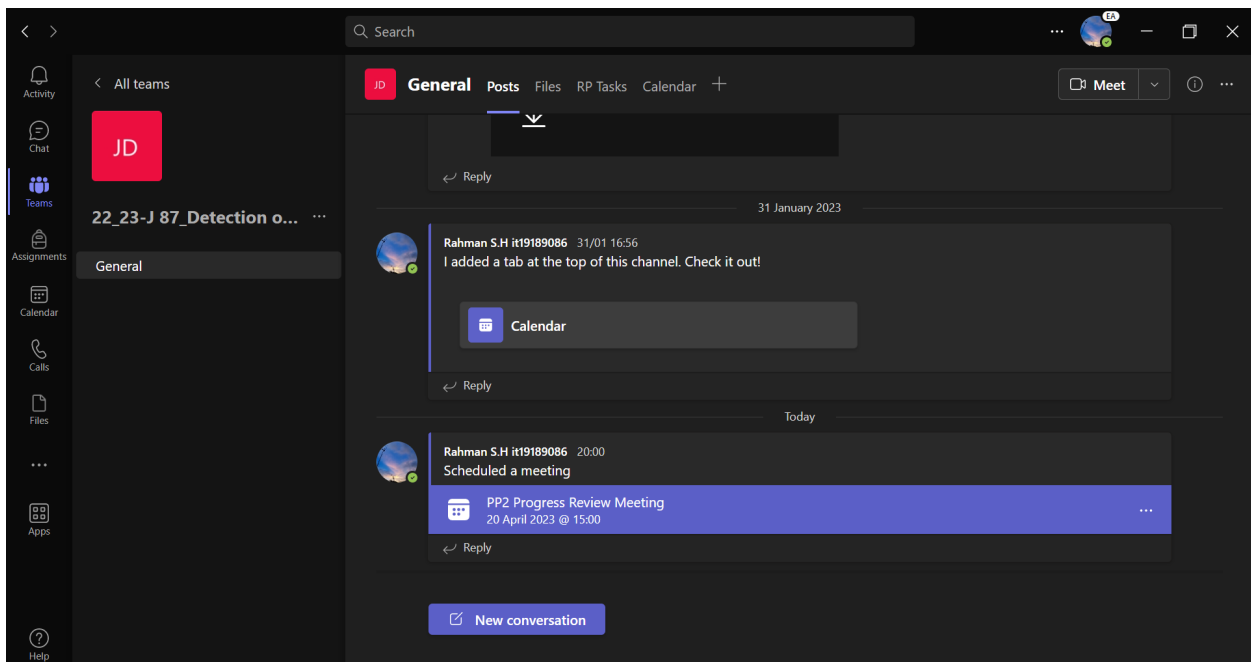


Figure 2 - MS Teams Calendar and Channel

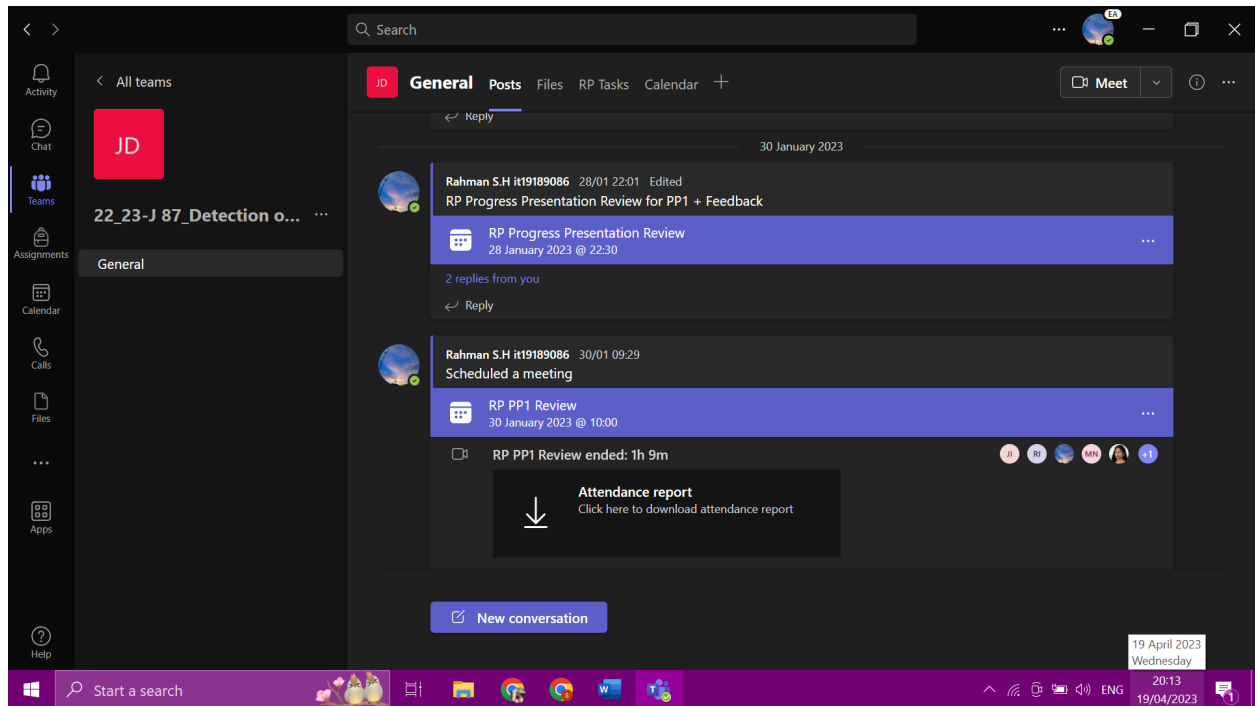


Figure 3 - MS Teams Calendar and Channel

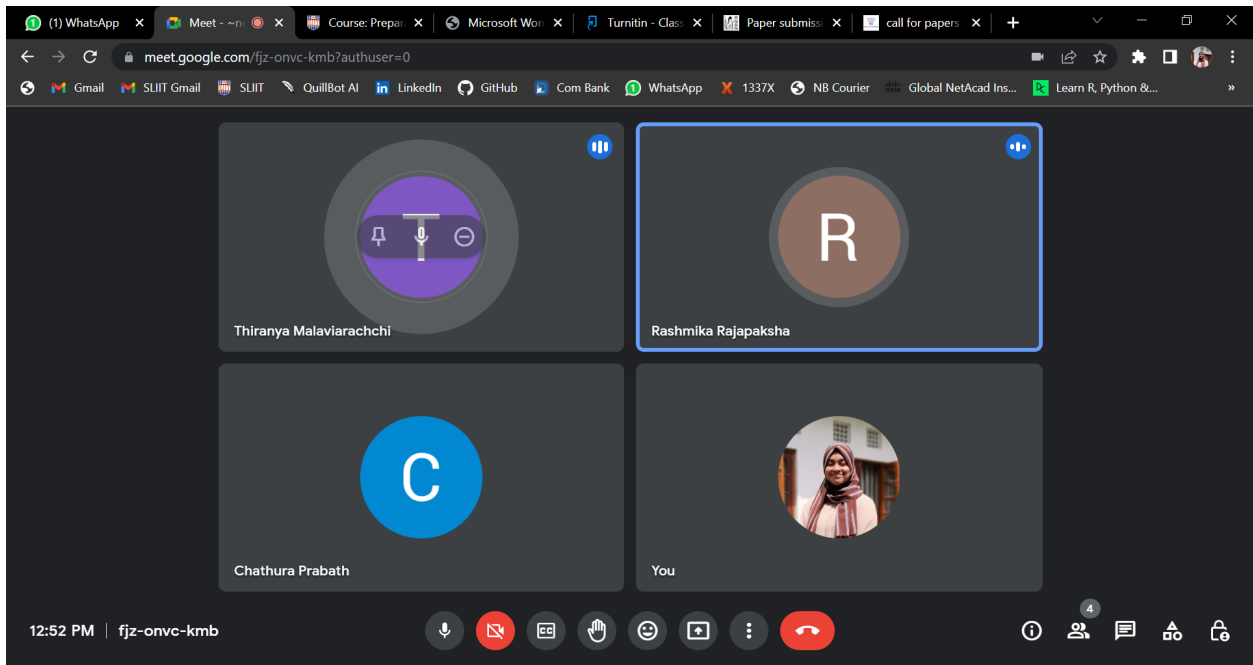


Figure 4 - Google Meet Sprint Meetings

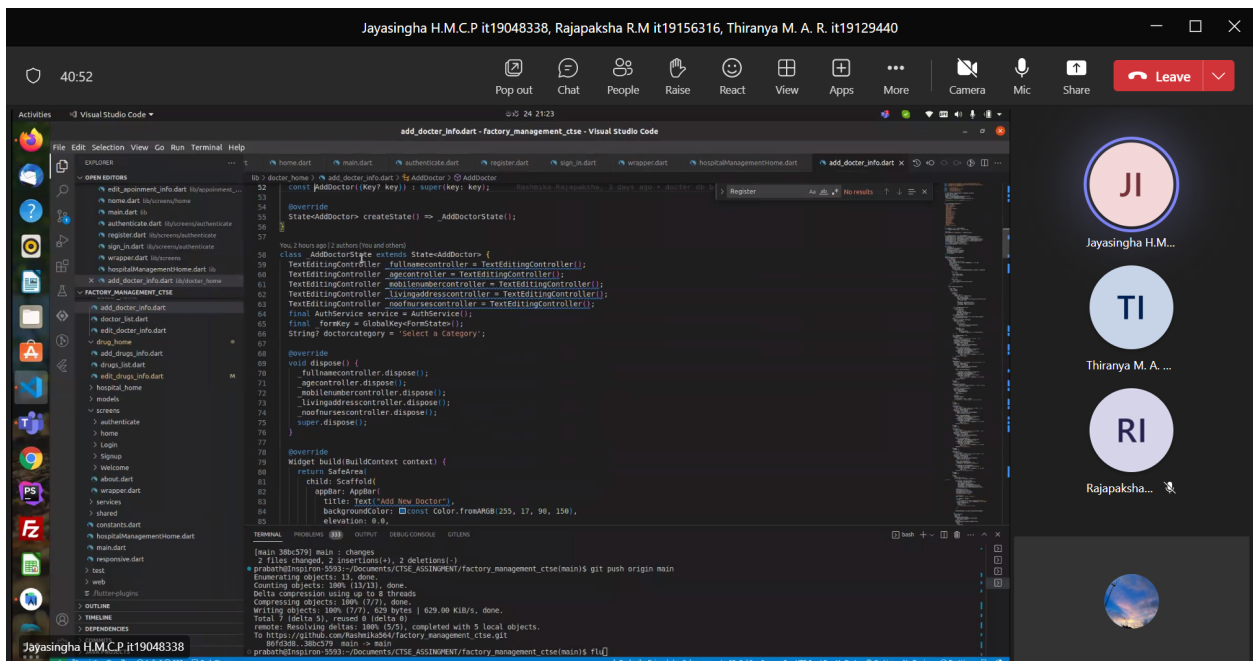


Figure 5 - MS Teams Project Implementation and Evaluation

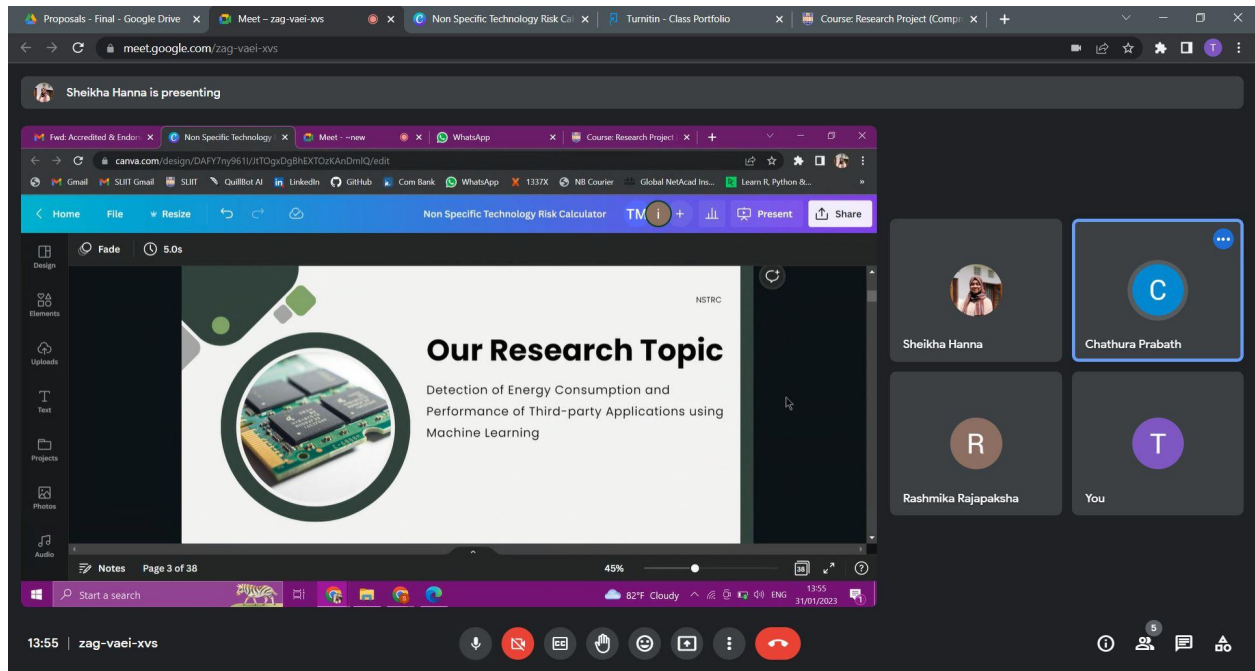


Figure 6 - Google Meet Progress Review 2 Practice

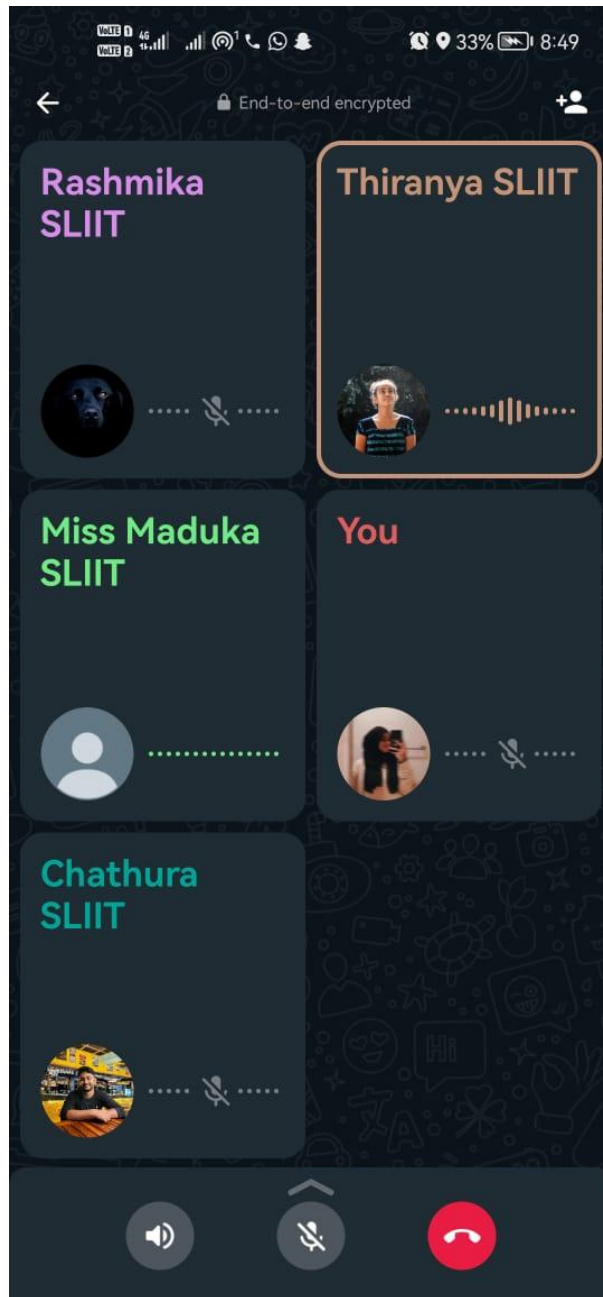


Figure 7 - WhatsApp Call Review with Co-Supervisor

02.2. Screenshots – MS Planner Project View

02.2.A. User Tasks Allocation

Data Collecting Tasks milestones

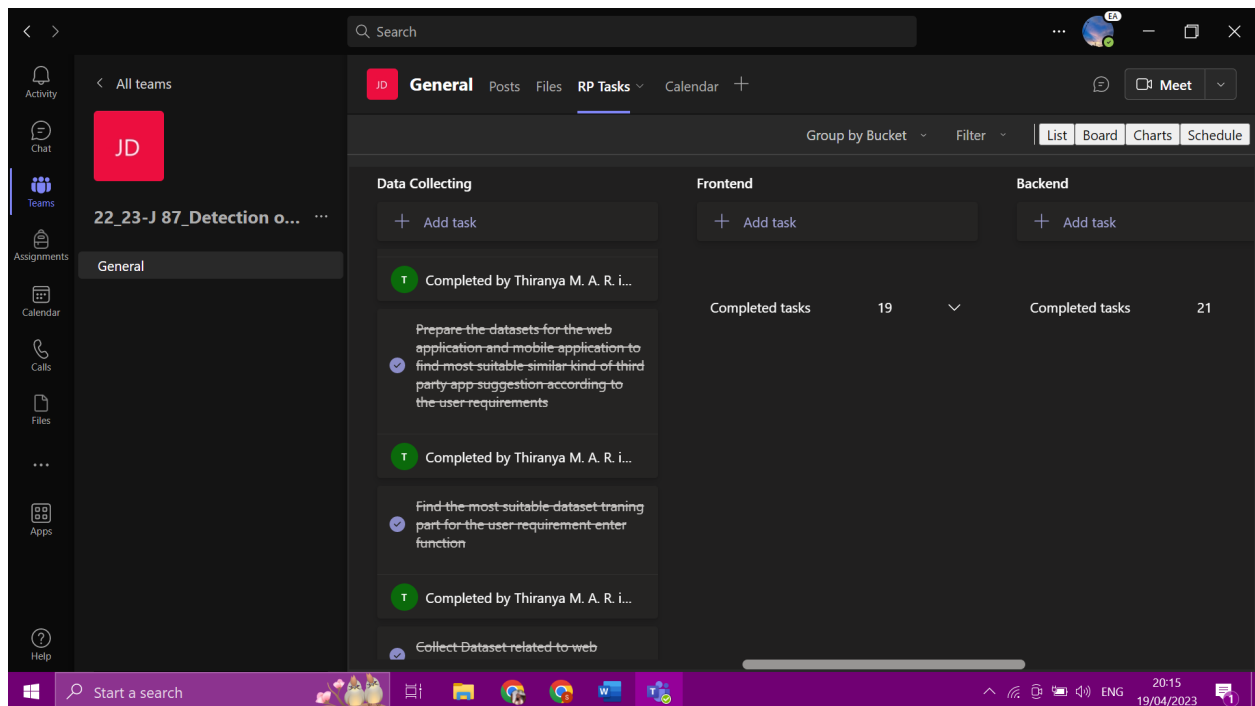


Figure 8 - MS Teams RP Board

Backend Development Tasks milestones

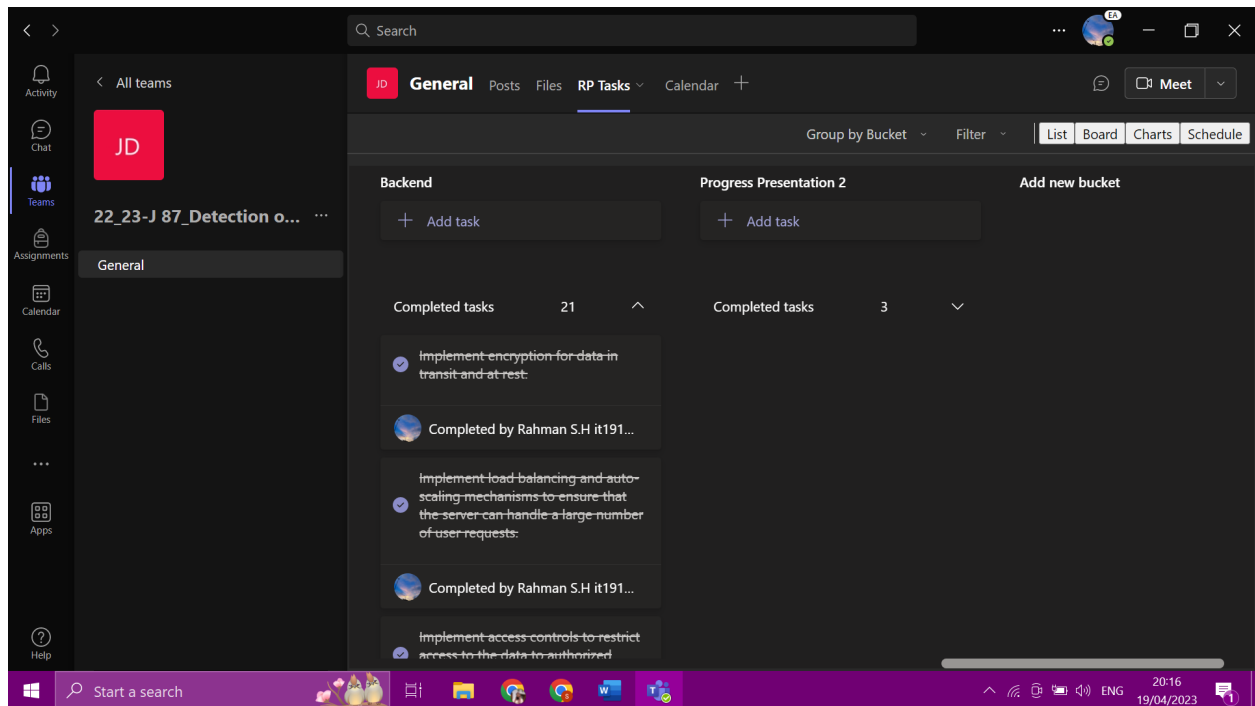


Figure 9 - MS Teams RP Board

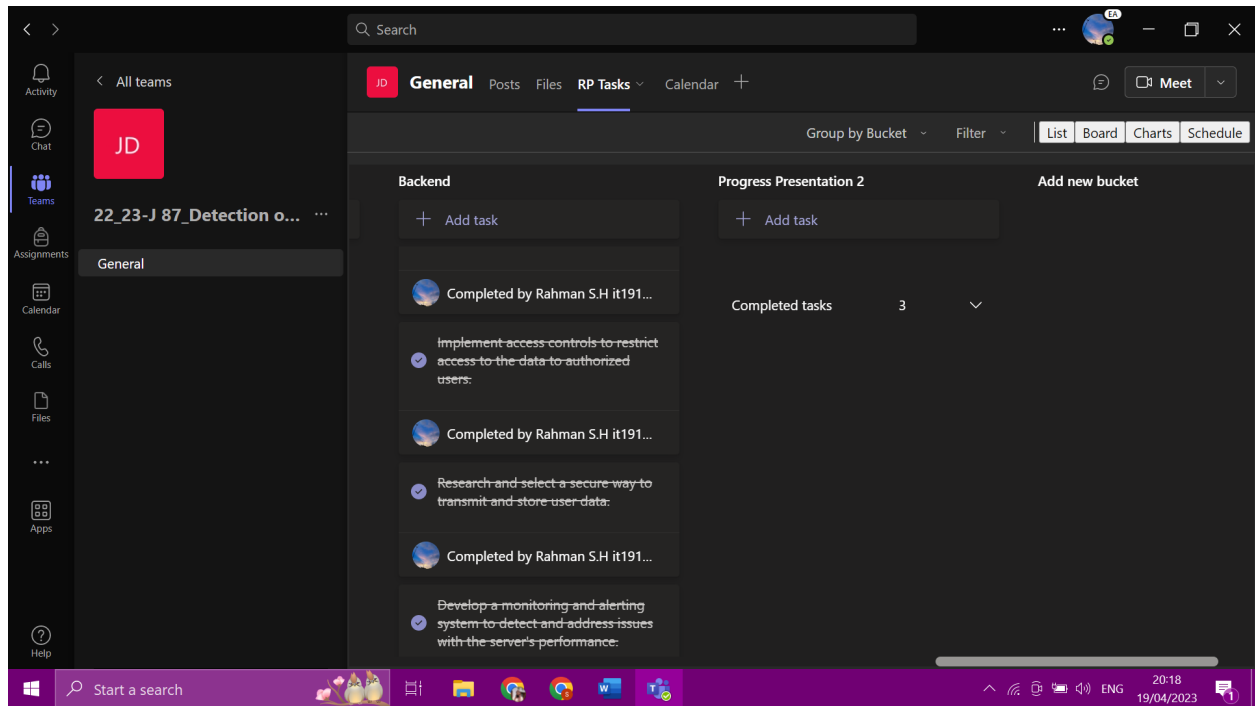


Figure 10 - MS Teams RP Board

Frontend Development Tasks milestones

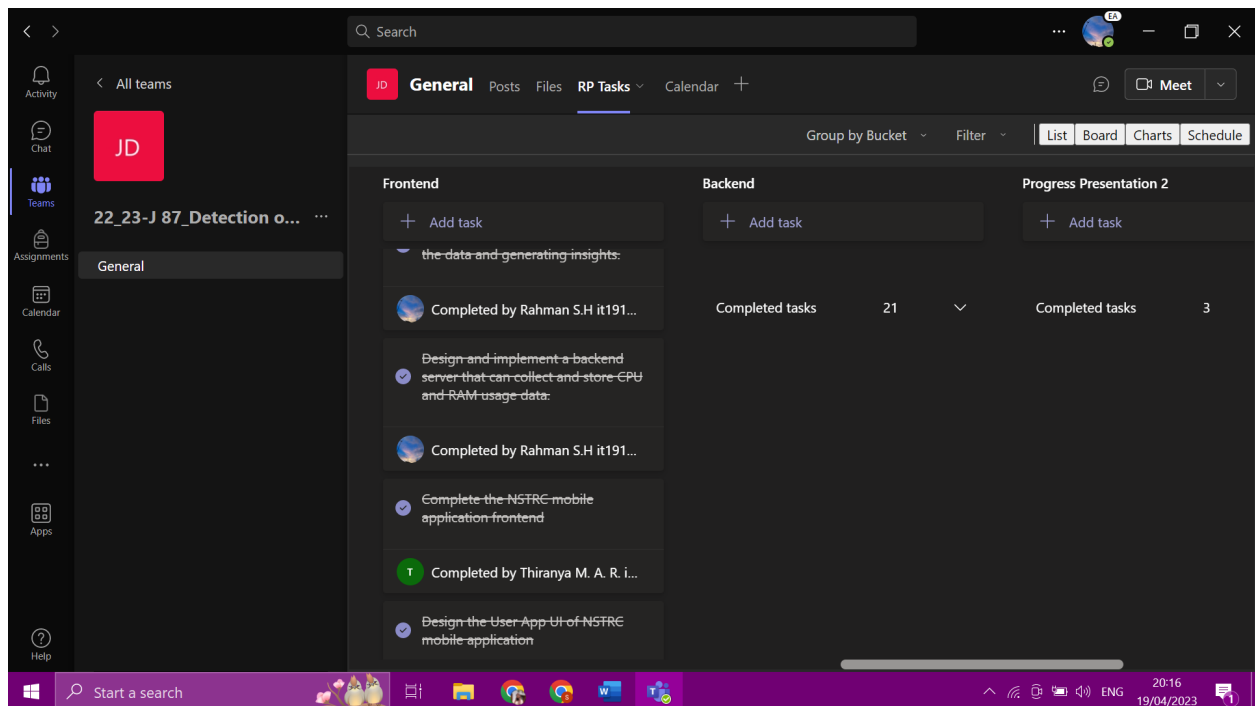


Figure 11 - MS Teams RP Board

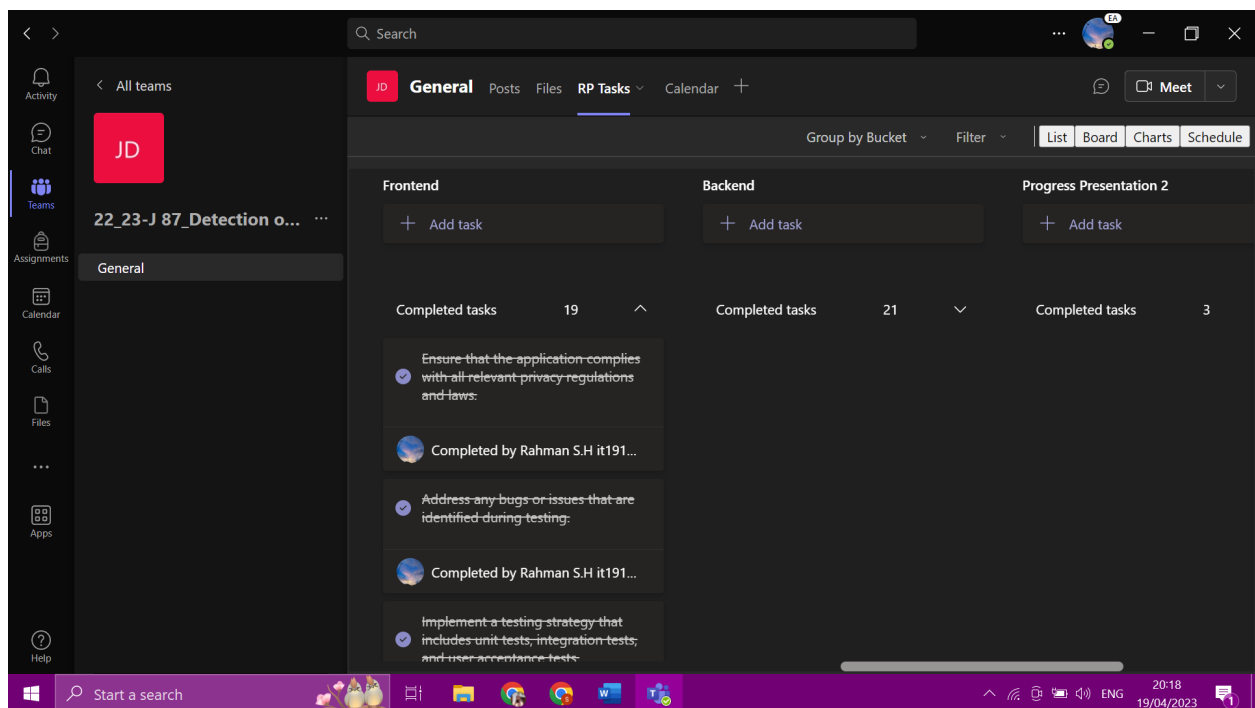


Figure 12 - MS Teams RP Board

02.2.B. Project Overall View with Charts

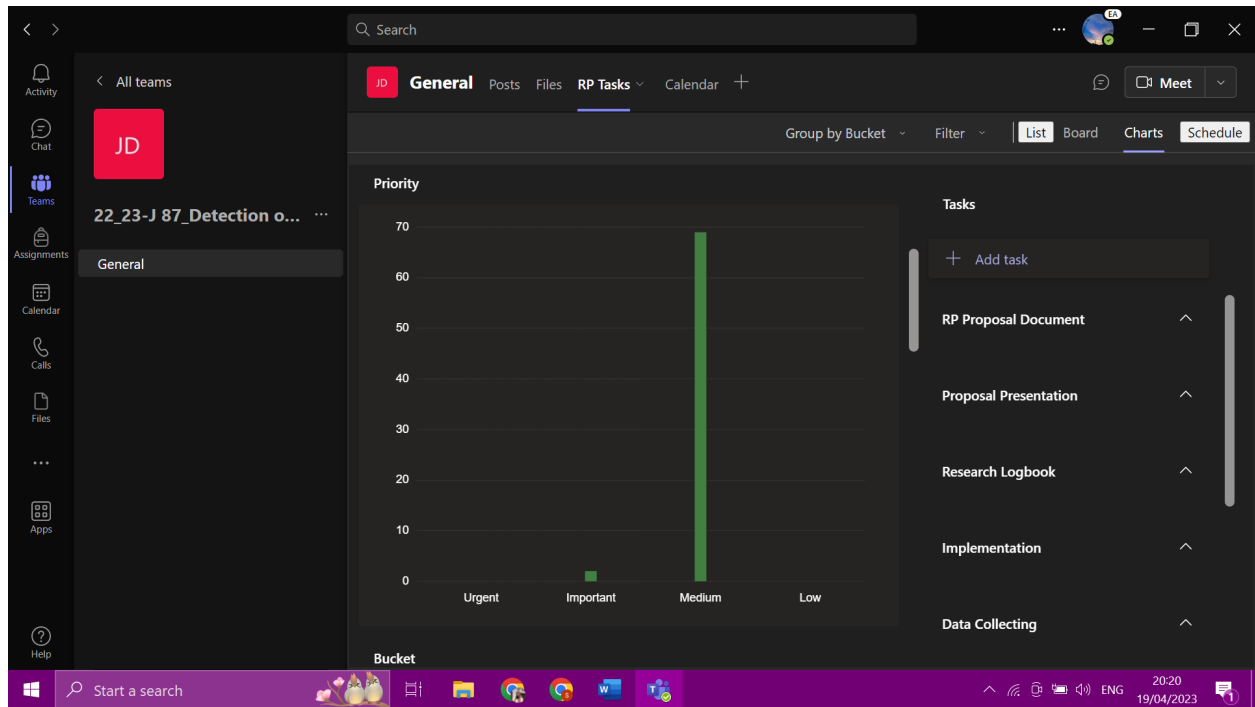


Figure 13 - MS Teams RP Chart View

03. Gantt chart

Predicted

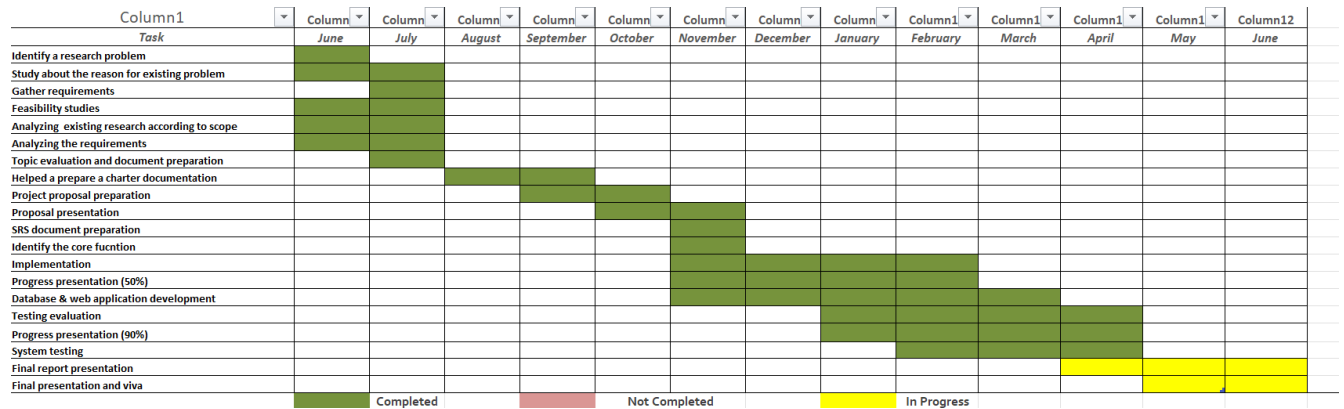


Figure 14 - Predicted Gantt Chart of Progress

Actual

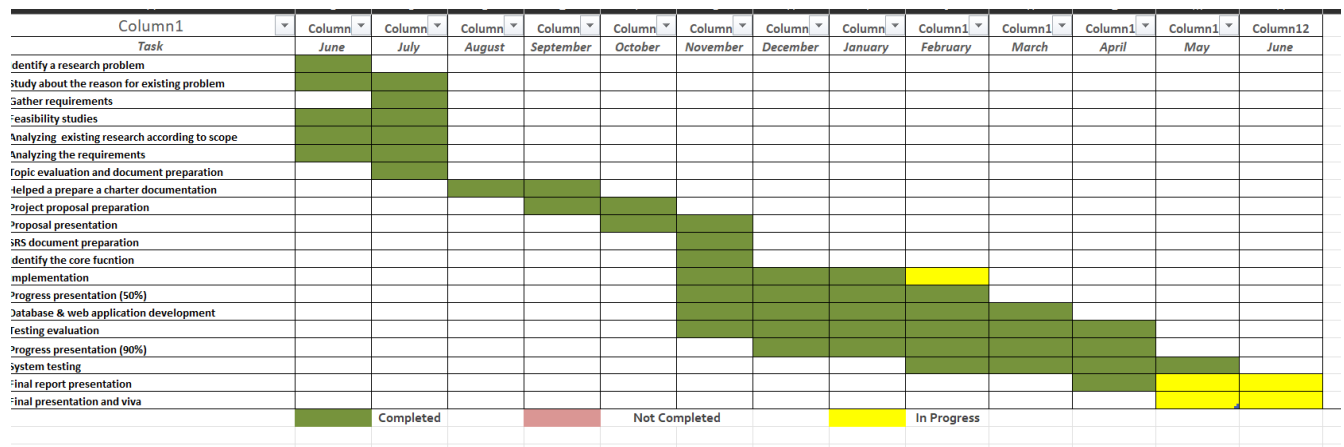


Figure 15 - Actual Gantt Chart of Progress

04. Work Breakdown Structure

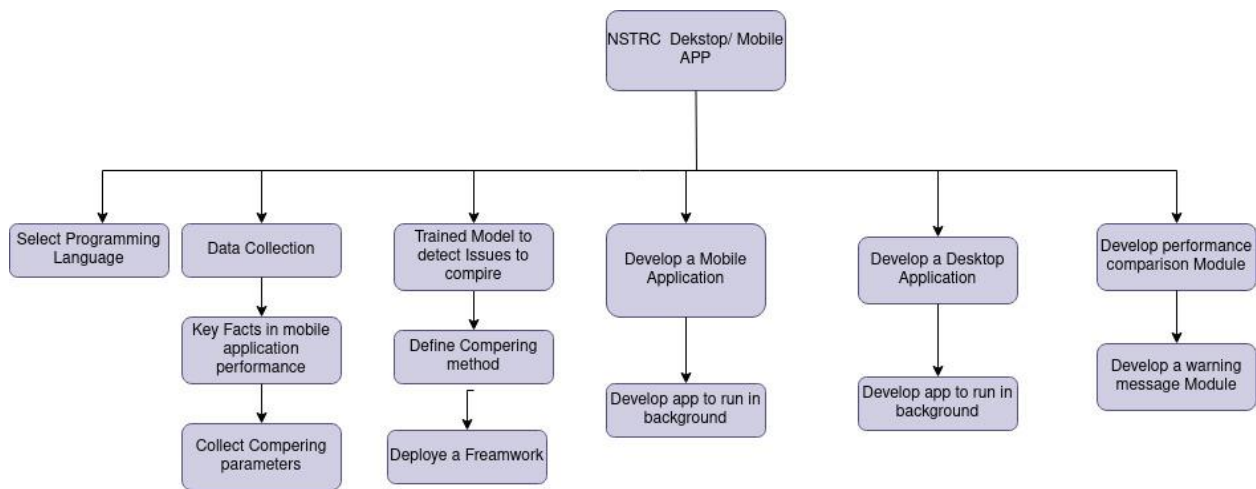


Figure 16 - Work Breakdown Structure of Component

05. 90% completion of the project - Screenshots



Figure 17 - Splash Screen of NSTRC Mobile Application

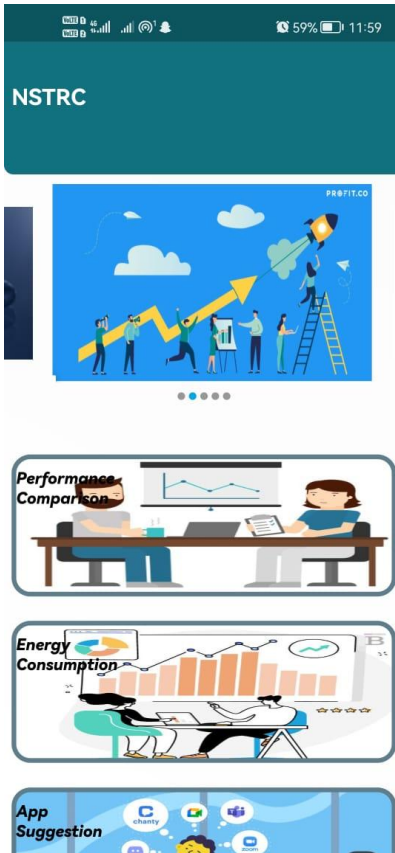


Figure 18 - Home Screen

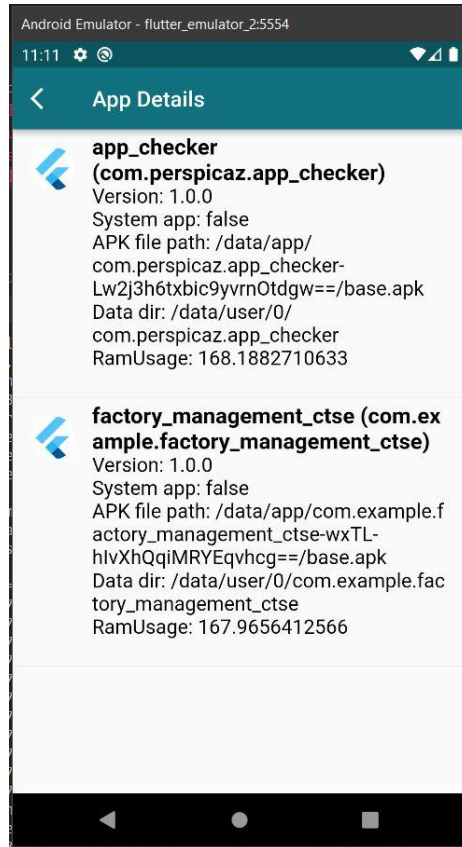


Figure 19 - Performance Component

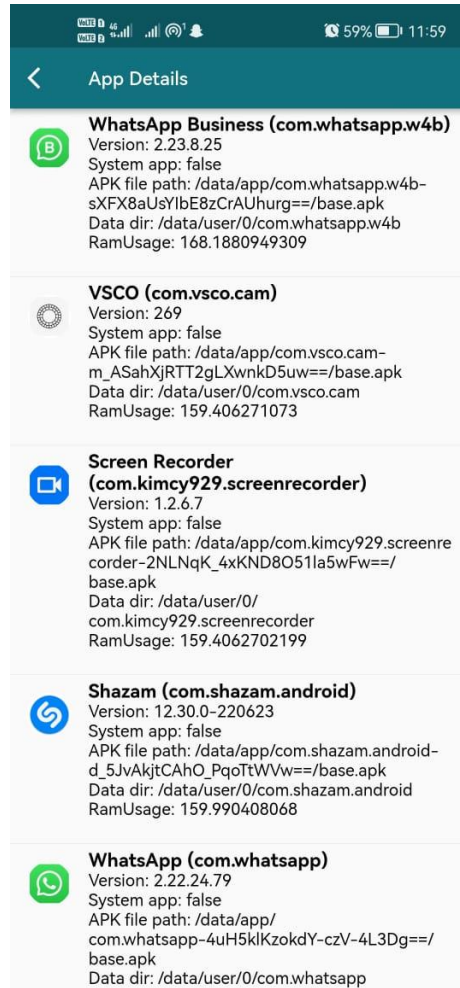


Figure 20 - Performance Component based on Ratings

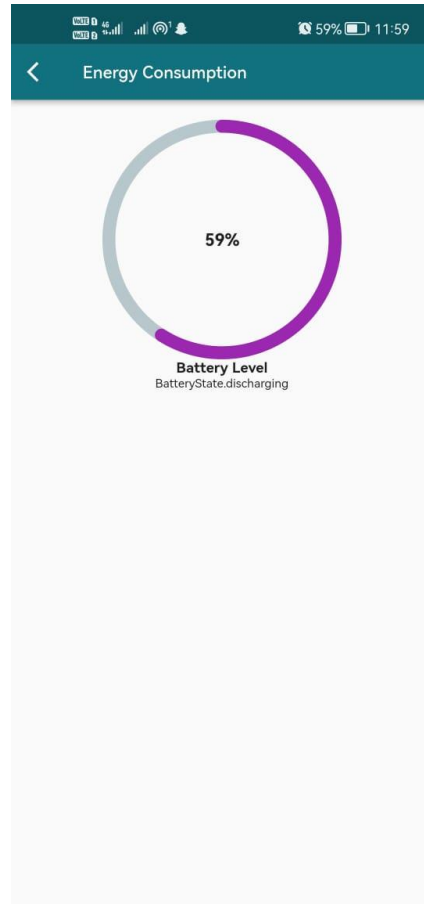


Figure 21 - Battery Consumption Component

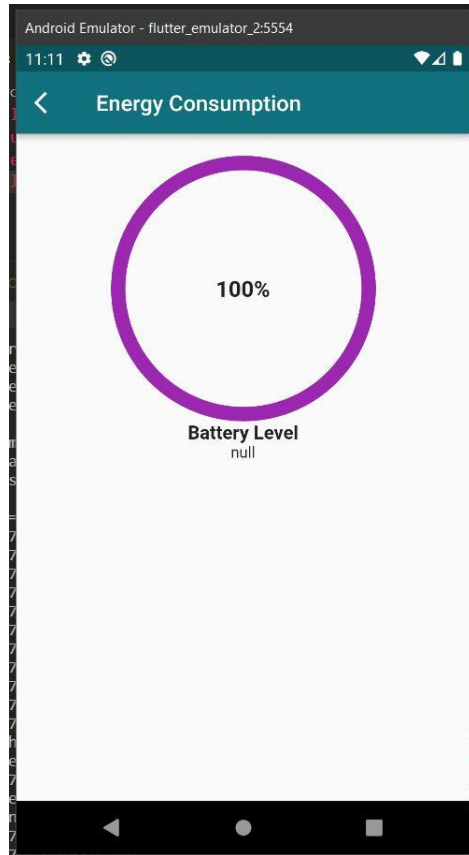


Figure 22 - Battery Consumption Component

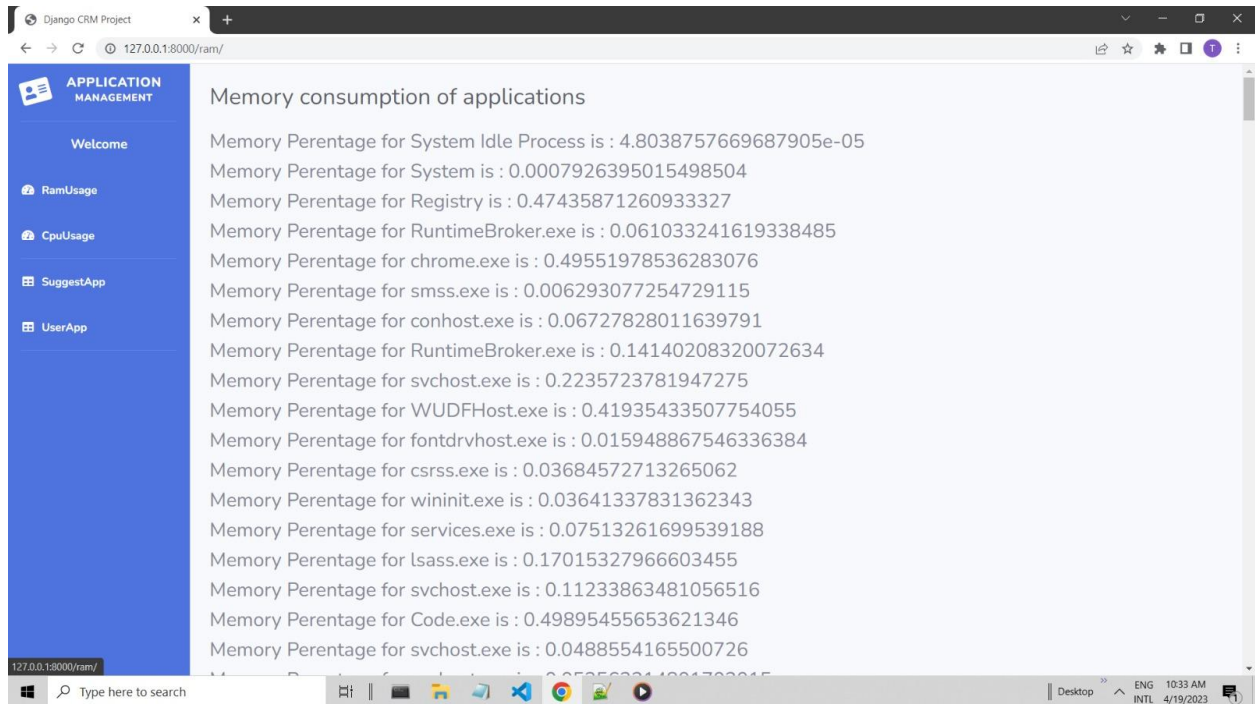


Figure 23 - NSTRC Web Application Memory Consumption

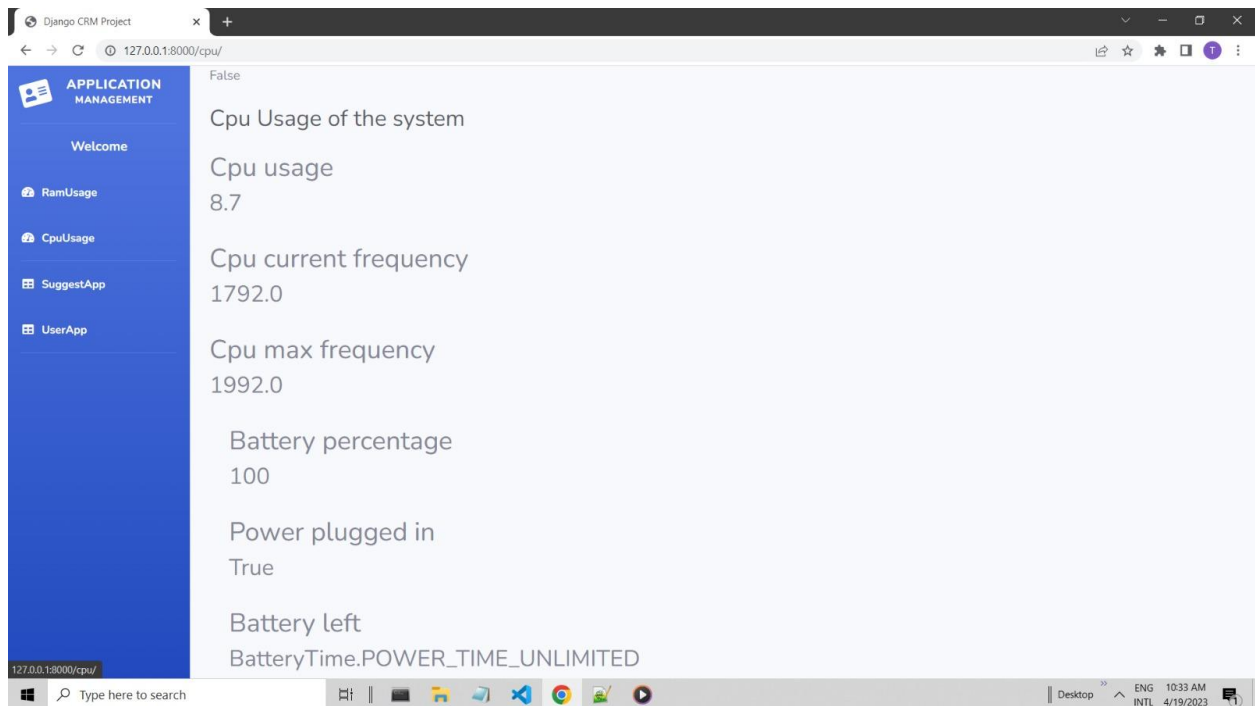


Figure 24 - NSTRC Web Application Memory Consumption for RAM and CPU usage

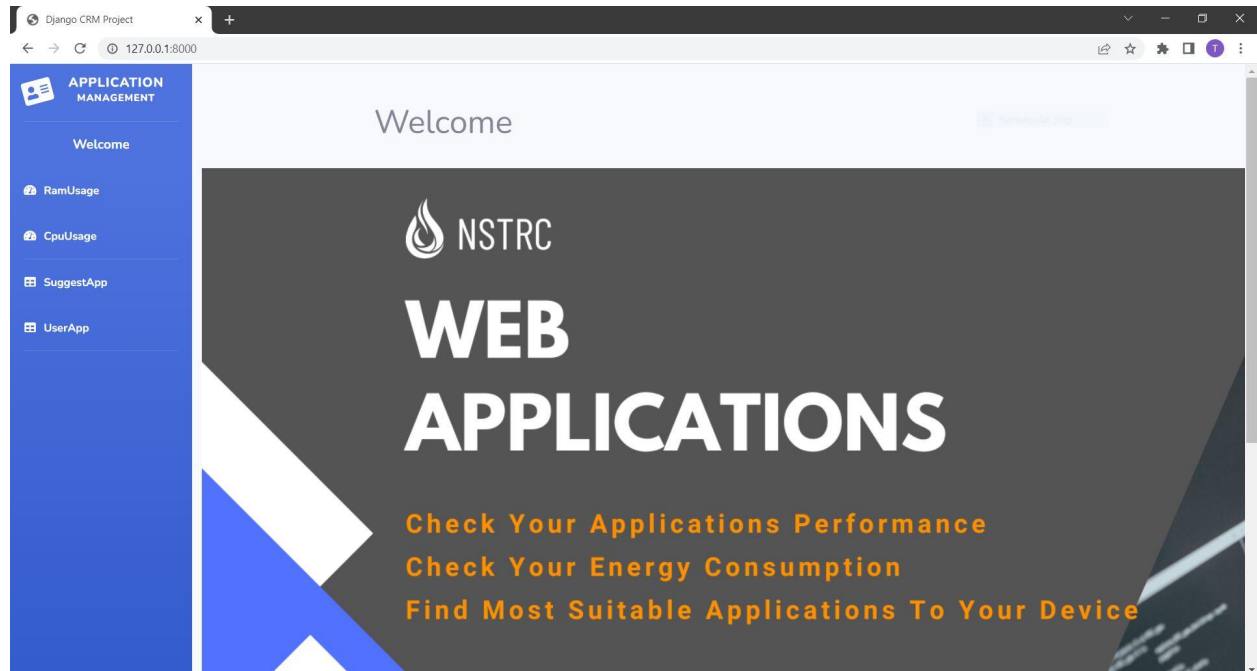


Figure 24 - NSTRC Web Application Memory Consumption Welcome Page