

**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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# **01.User Workload**

## **Completed individual components**

- Collected similar kinds of third party applications dataset and different kinds of user requirements, users can search for a third party application which matches the user device performance.
- Trained the similar kind of third party applications dataset with the content based recommendation ML algorithm.
- Trained with different kinds of user requirements, users can search for a third party application which matches the user device performance dataset with the NLP.
- Completed web application for the suggestion of the most suitable third-party application according to the performance of the user's device .
- Completed mobile application for the suggestion of the most suitable third-party application according to the performance of the user's device .
- Completed web application for the suggestion of the most suitable third-party application according to the performance of the user's device based on user requirements.
- Completed mobile application for the suggestion of the most suitable third-party application according to the performance of the user's device based on user requirements.

## **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

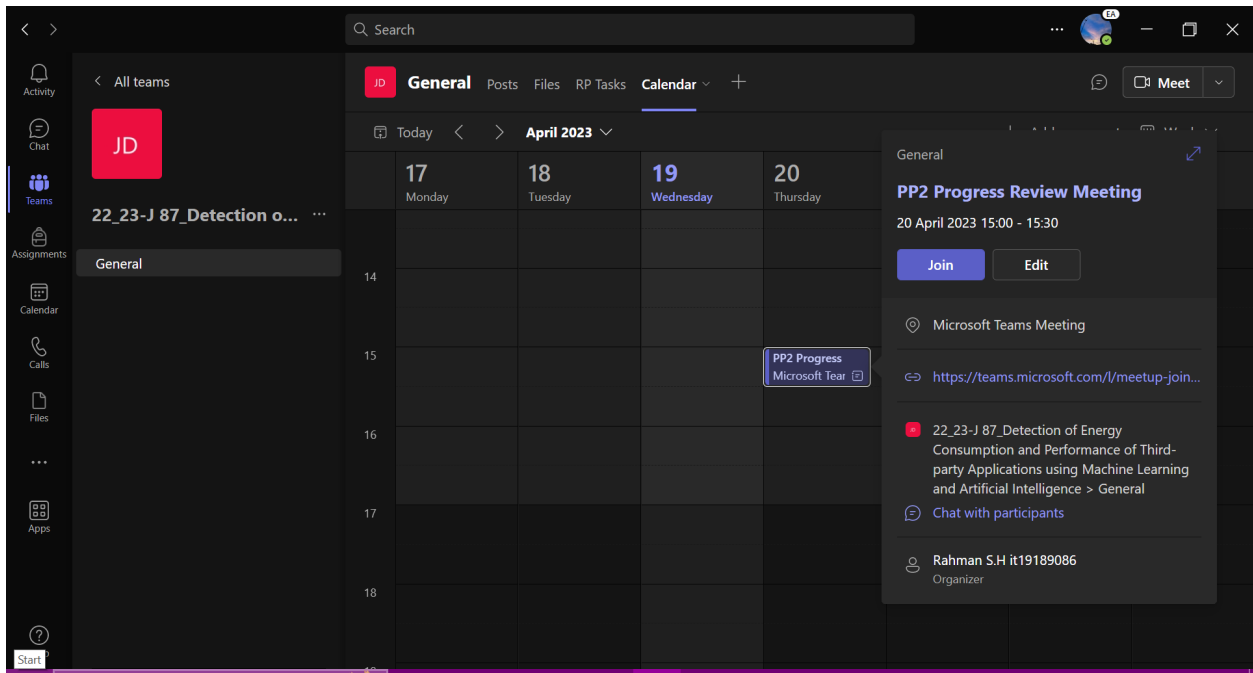


Figure 1 - MS Teams Calendar and Meetings

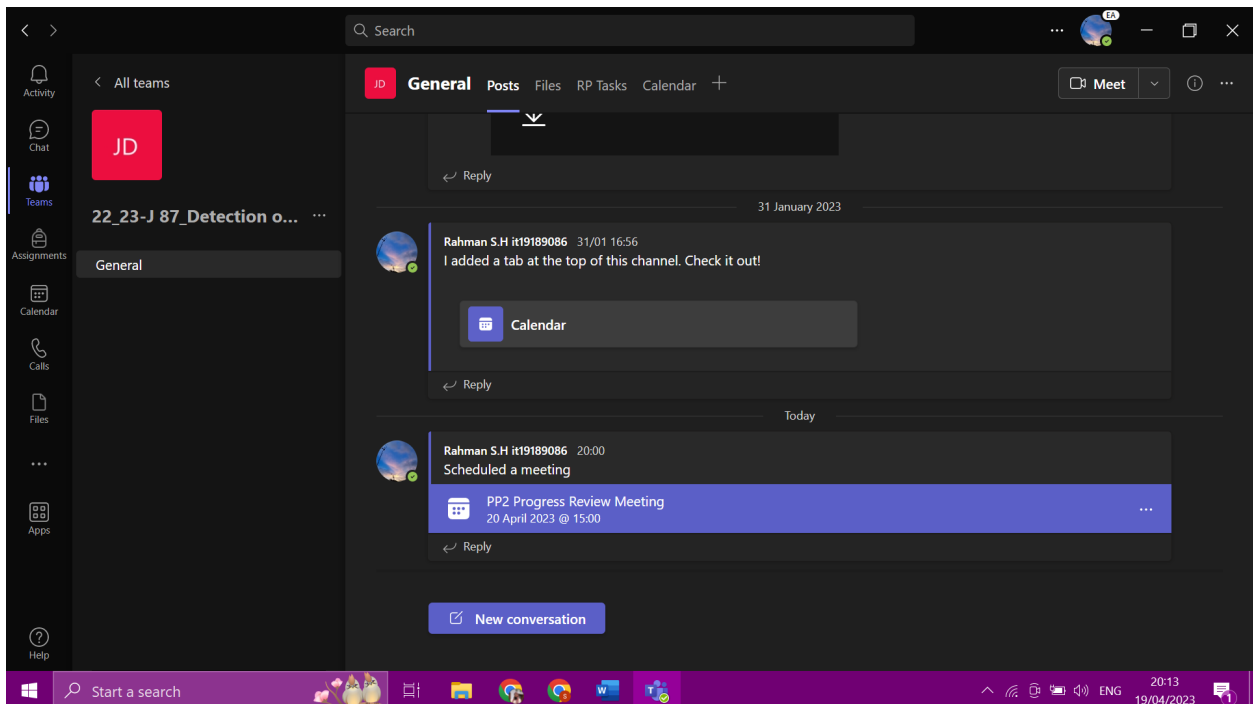


Figure 2 - MS Teams Calendar and Channel

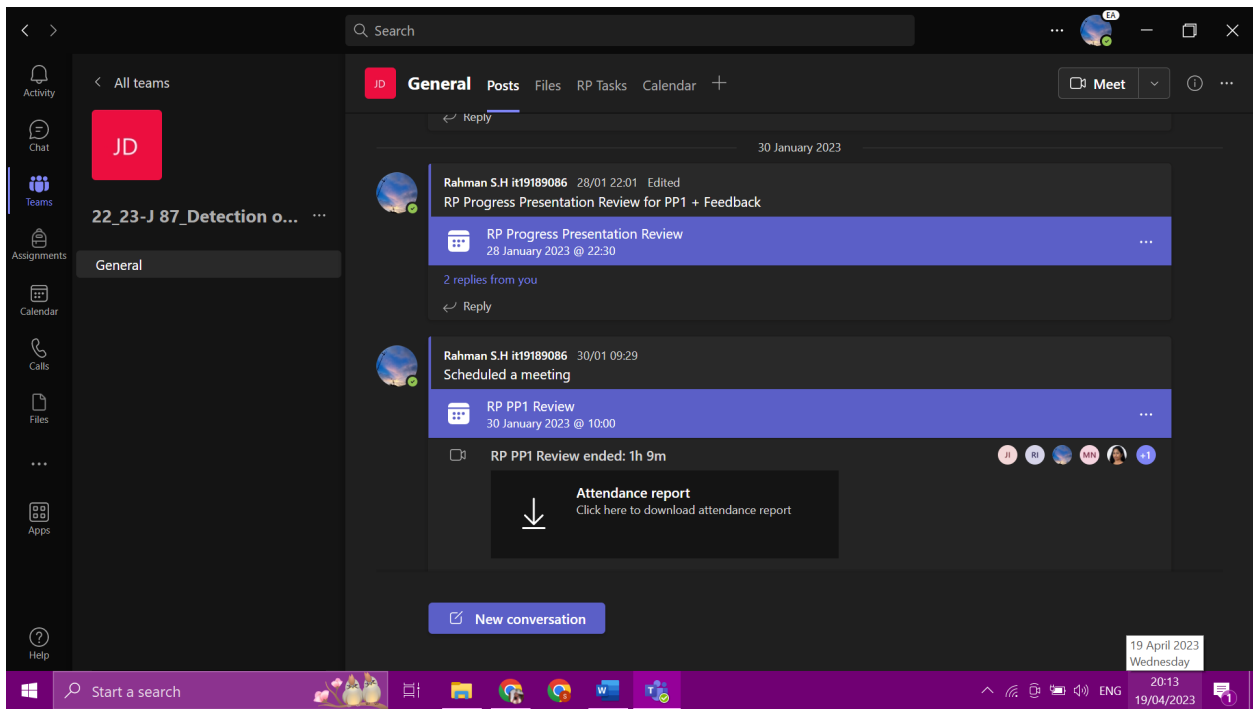


Figure 3 - MS Teams Calendar and Channel

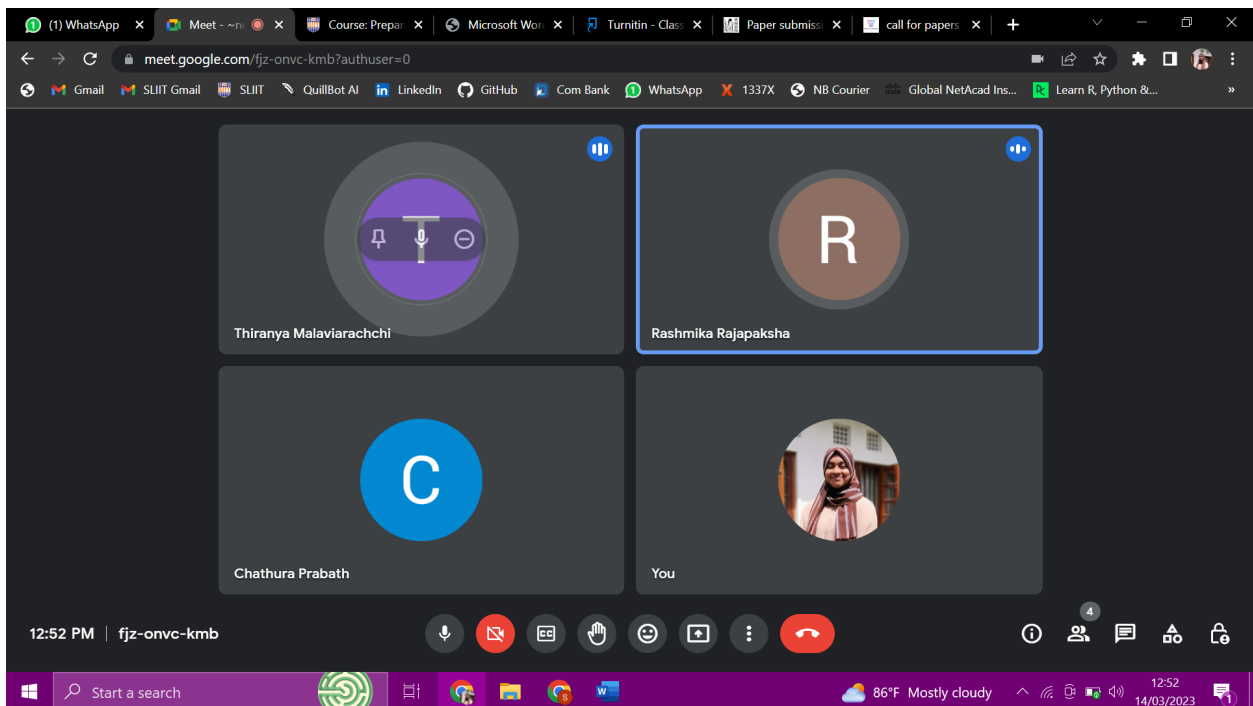


Figure 4 - Google Meet Sprint Meetings

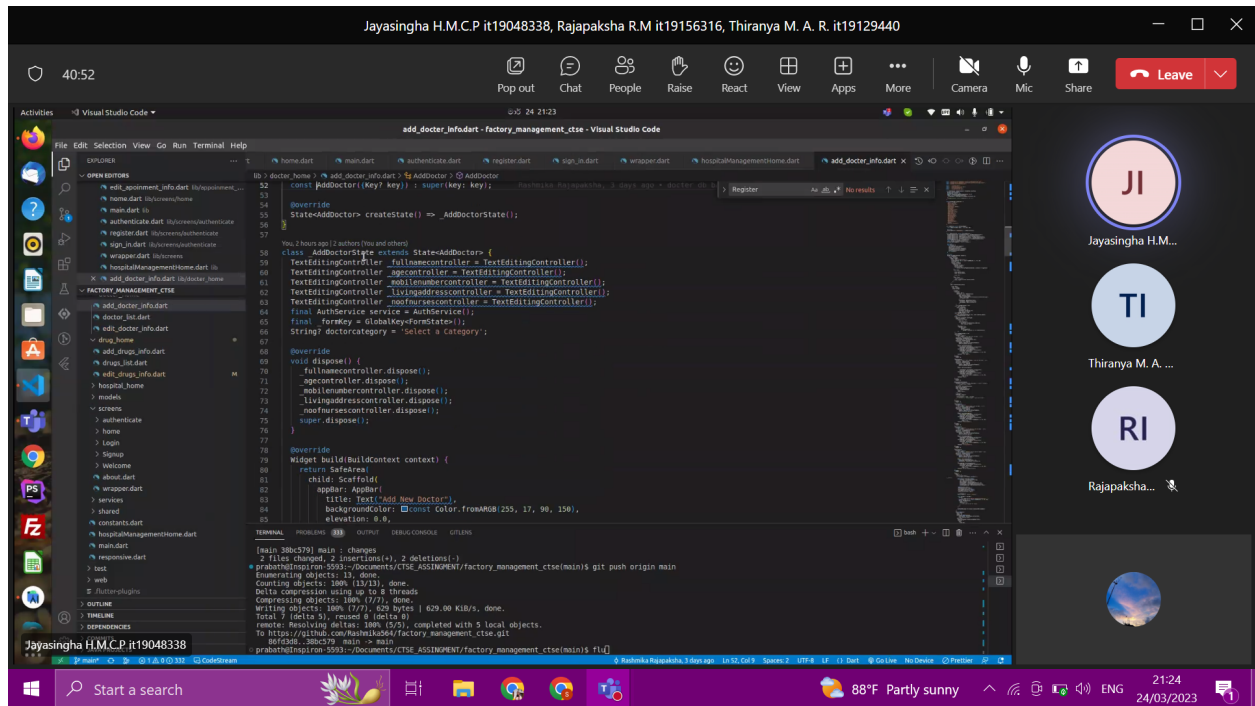


Figure 5 - MS Teams Project Implementation and Evaluation

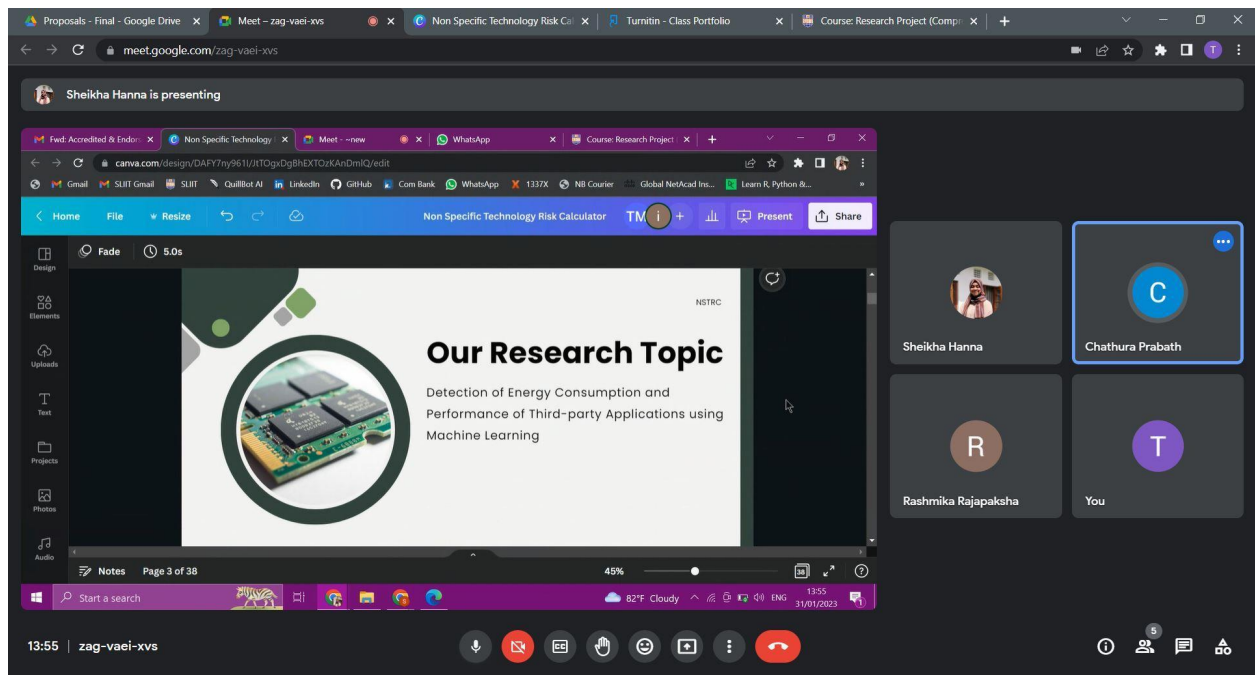
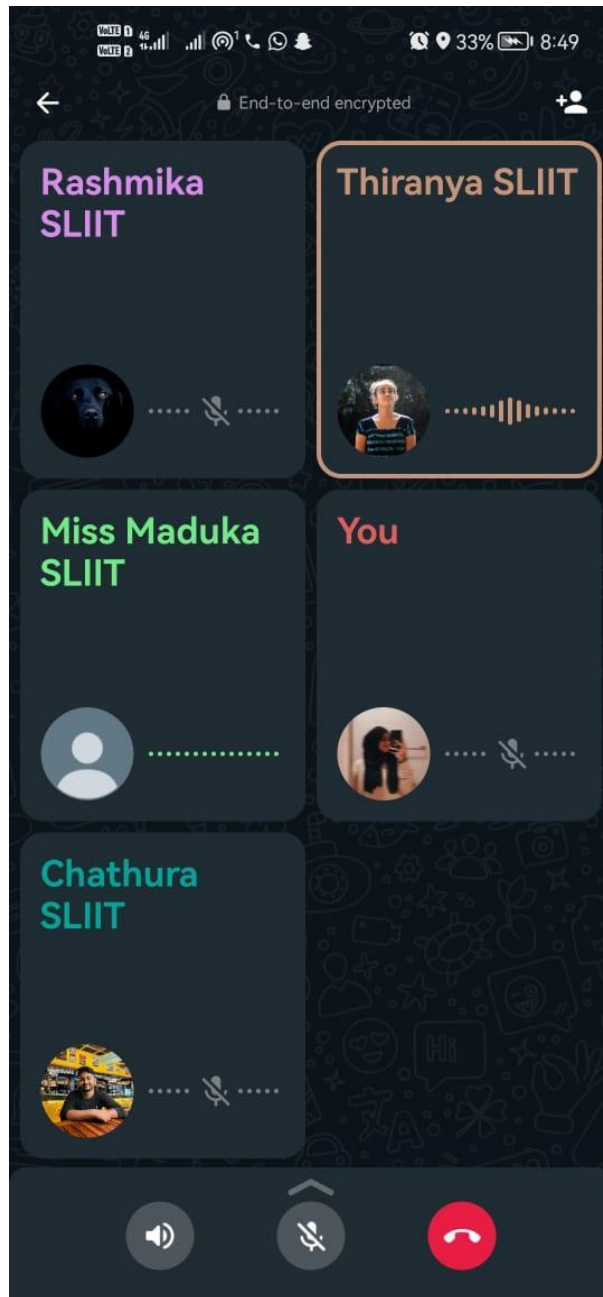


Figure 6 - Google Meet Progress Review 2 Practice





*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

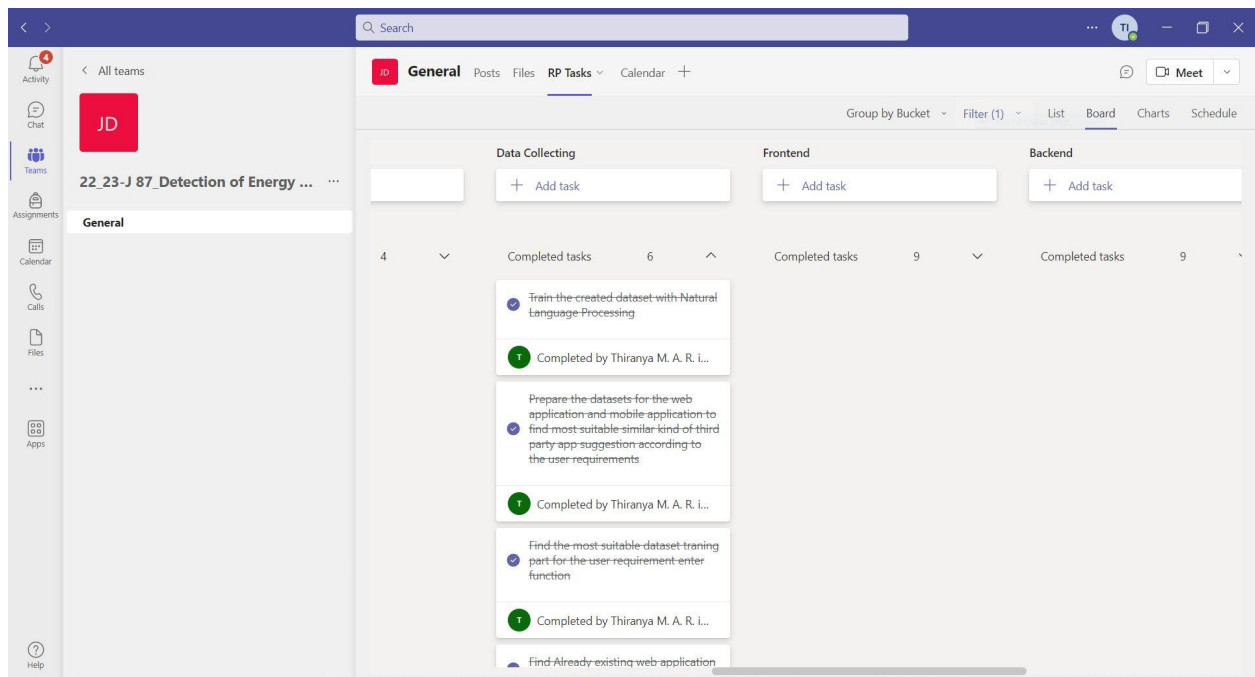
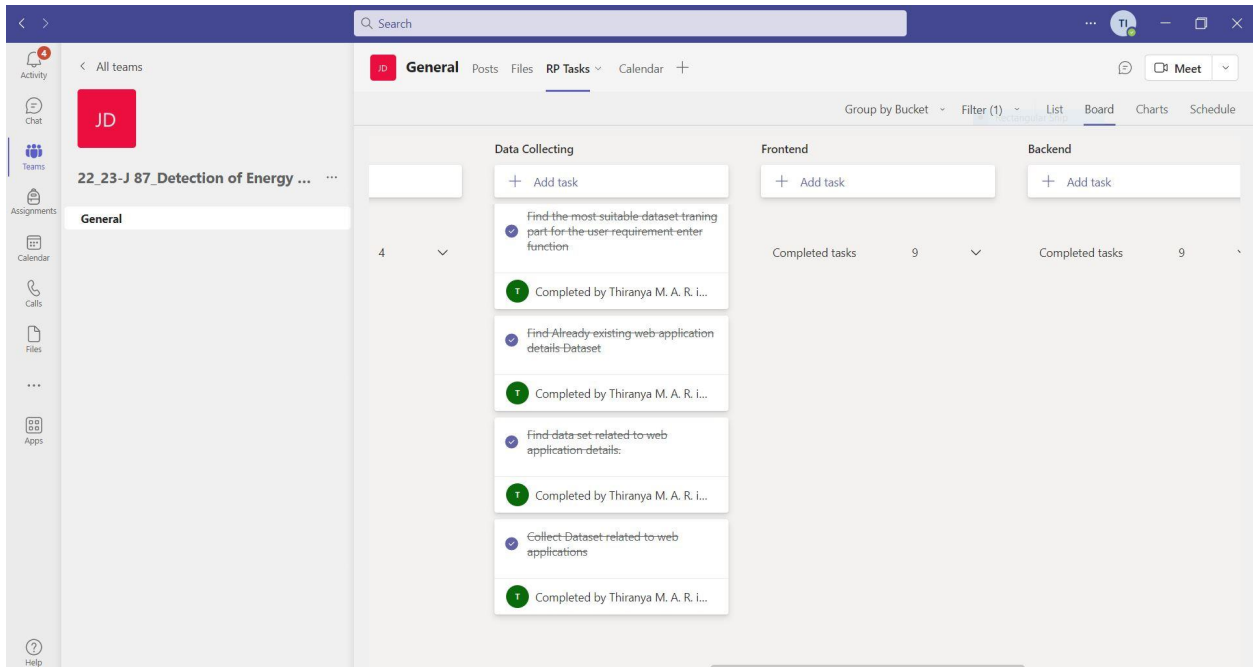


Figure 8 - MS Teams RP Board



*Figure 9 - MS Teams RP Board*

## Backend Development Tasks milestones

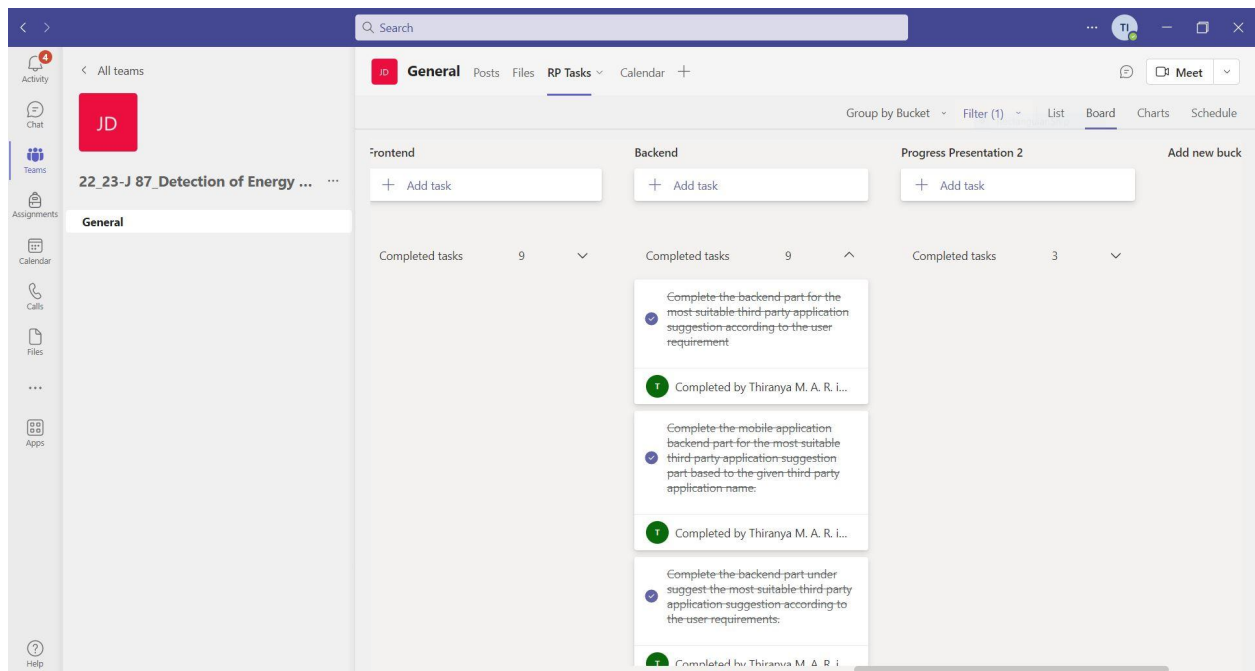


Figure 10 - MS Teams RP Board

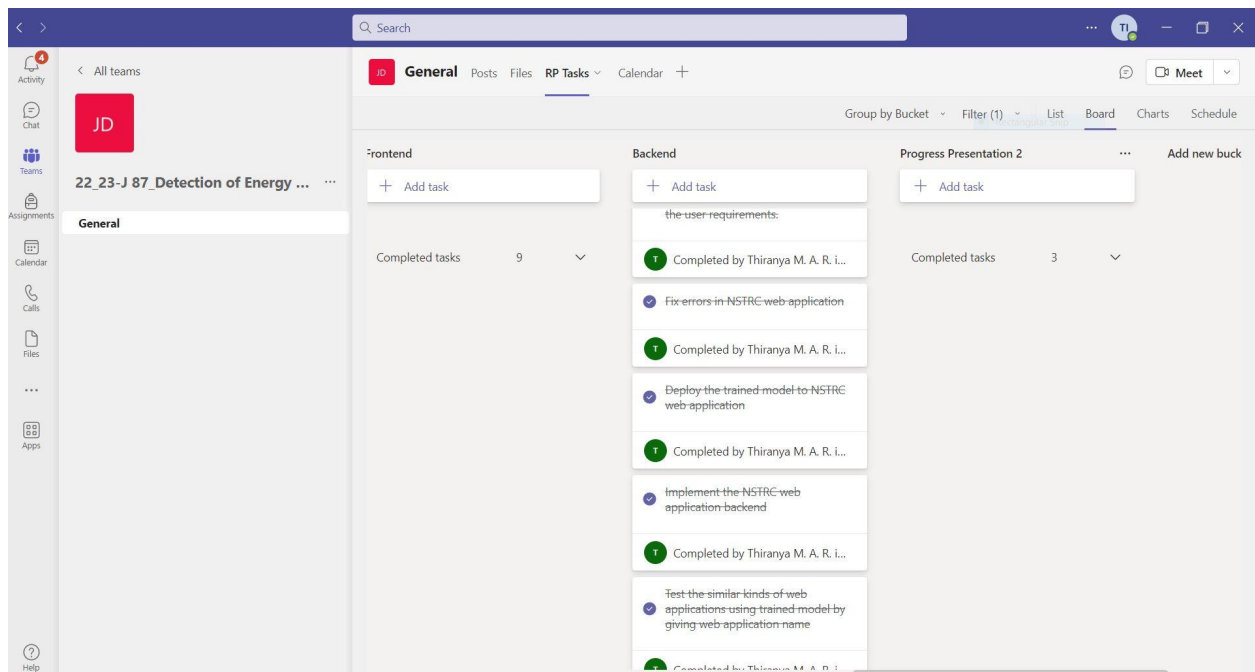
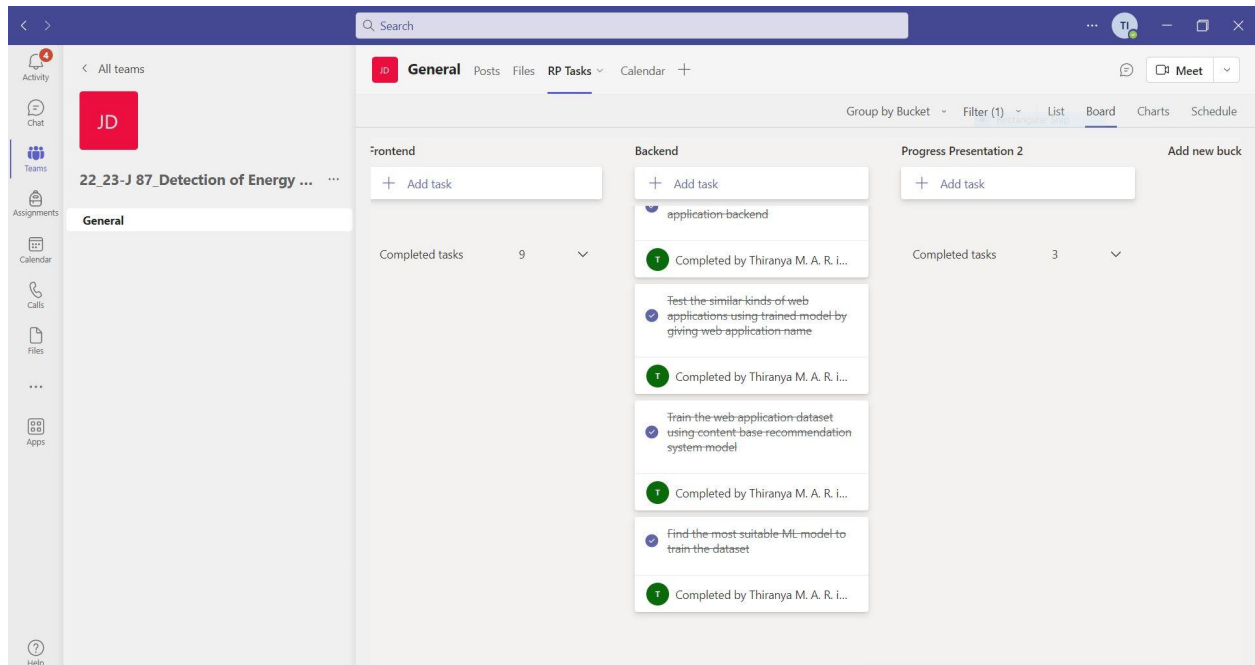


Figure 11 - MS Teams RP Board



*Figure 12 - MS Teams RP Board*

## Frontend Development Tasks milestones

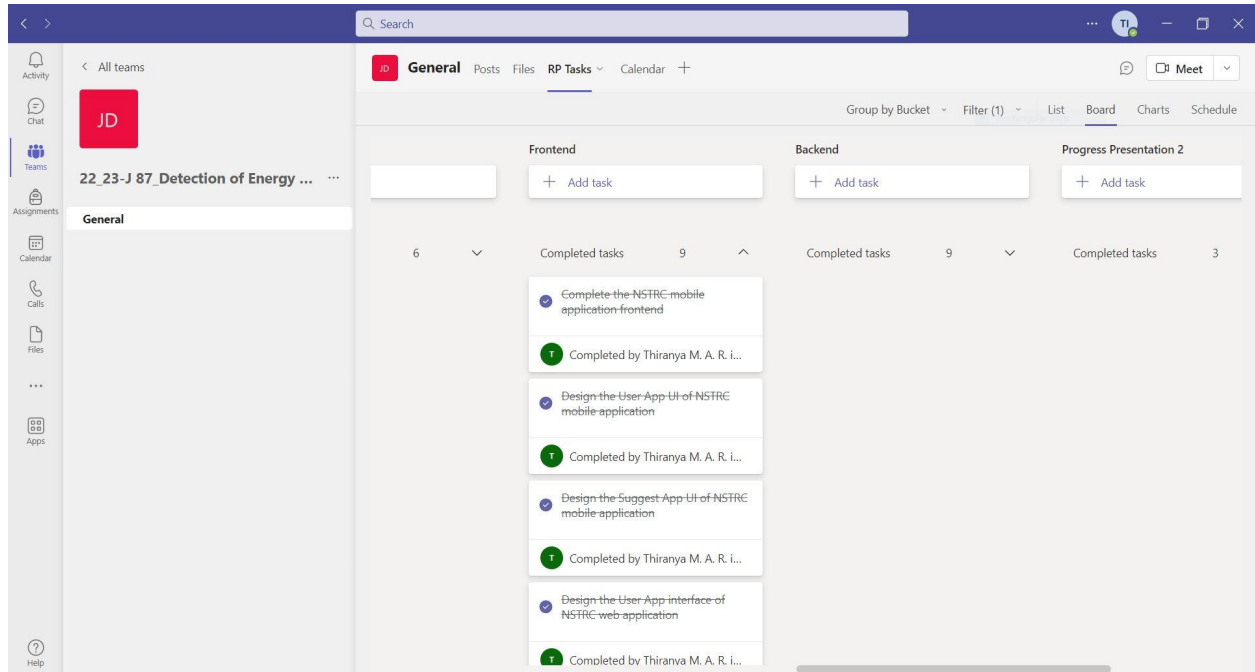


Figure 13 - MS Teams RP Board

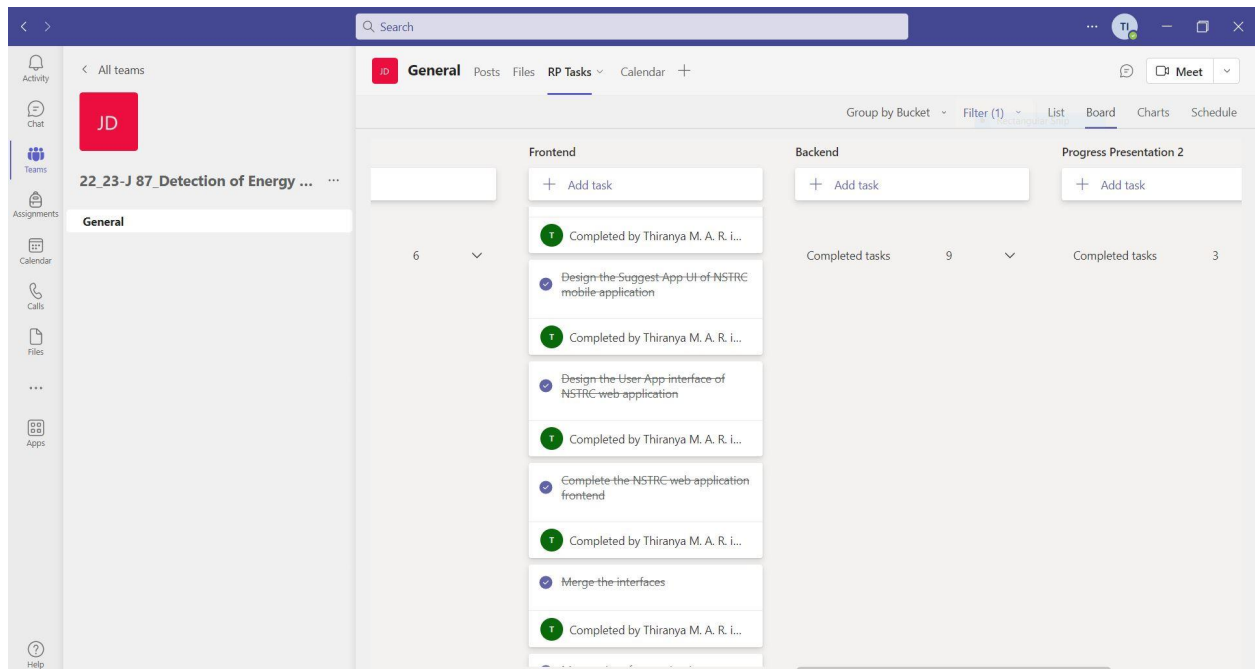


Figure 14 - MS Teams RP Board

## 02.2.B. Project Overall View with Charts

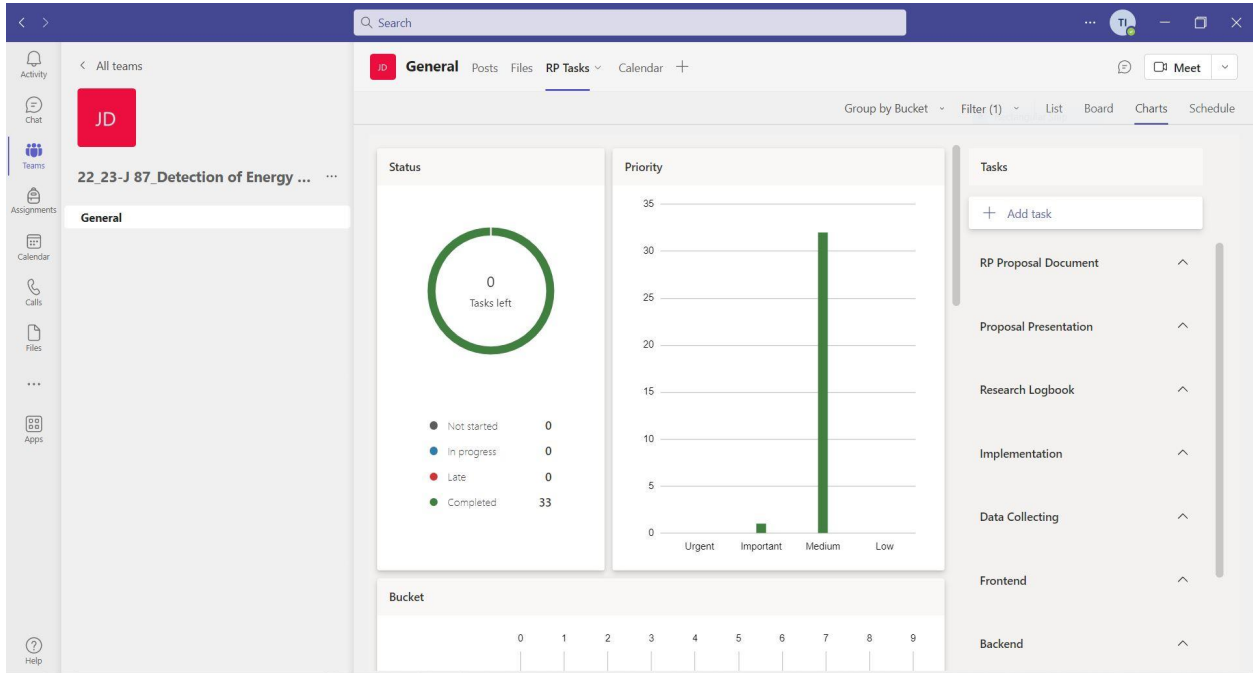


Figure 15 - MS Teams RP Chart View

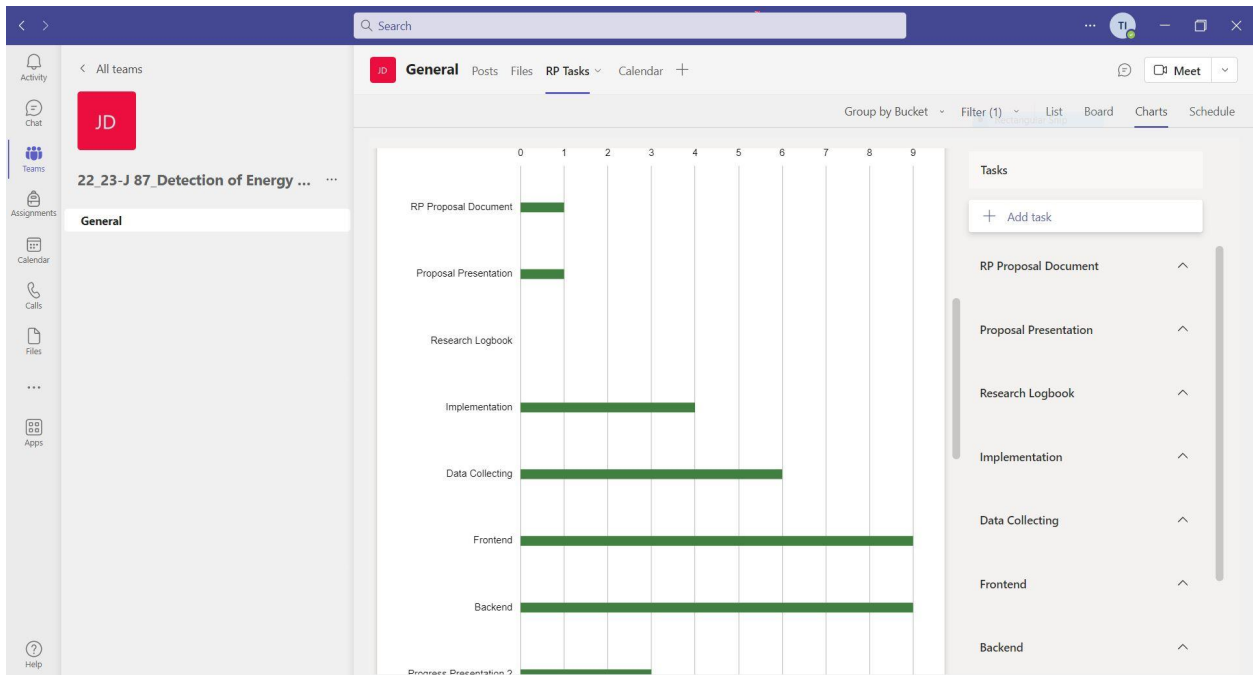


Figure 16 - MS Teams RP Chart View

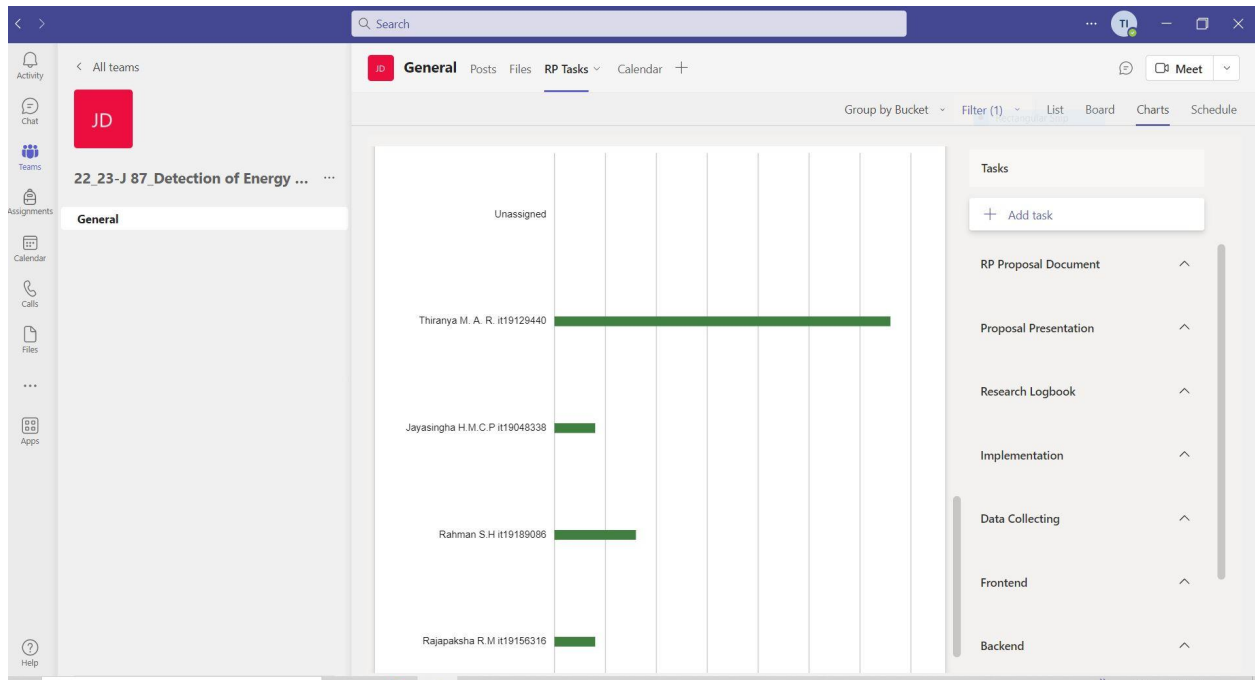


Figure 17 - MS Teams RP Chart View



## 03. Gantt chart

### Predicted

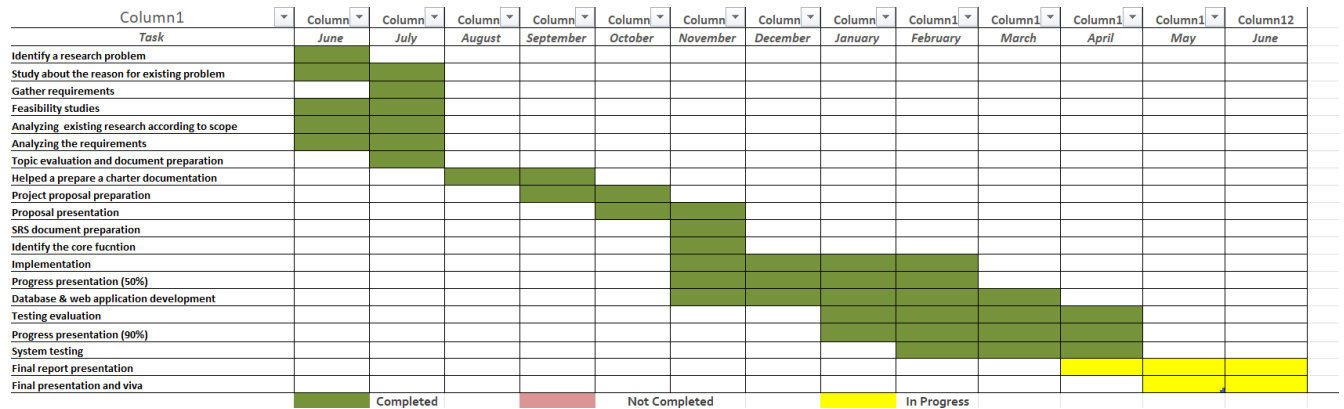


Figure 18 - Predicted Gantt Chart of Progress

### Actual

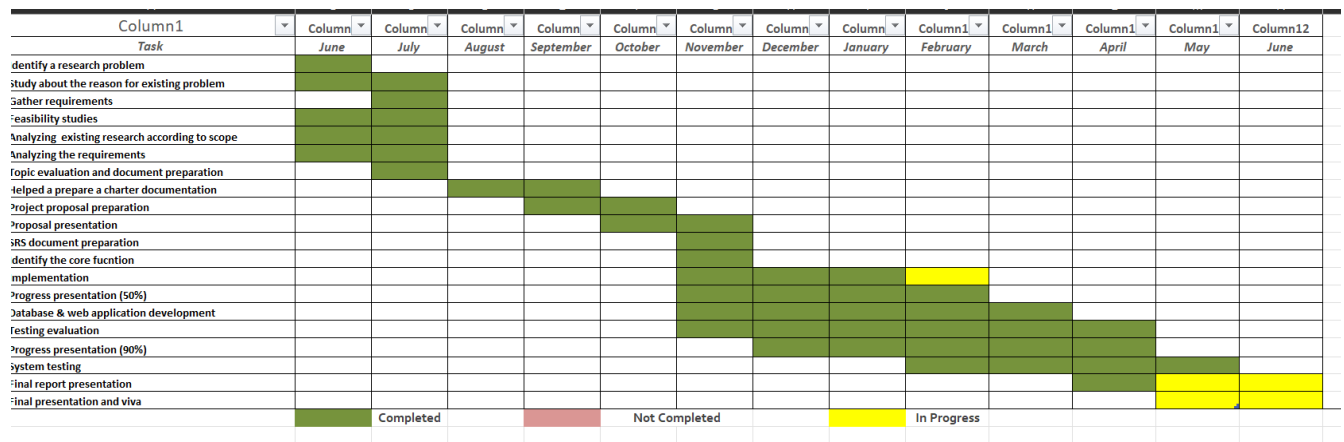
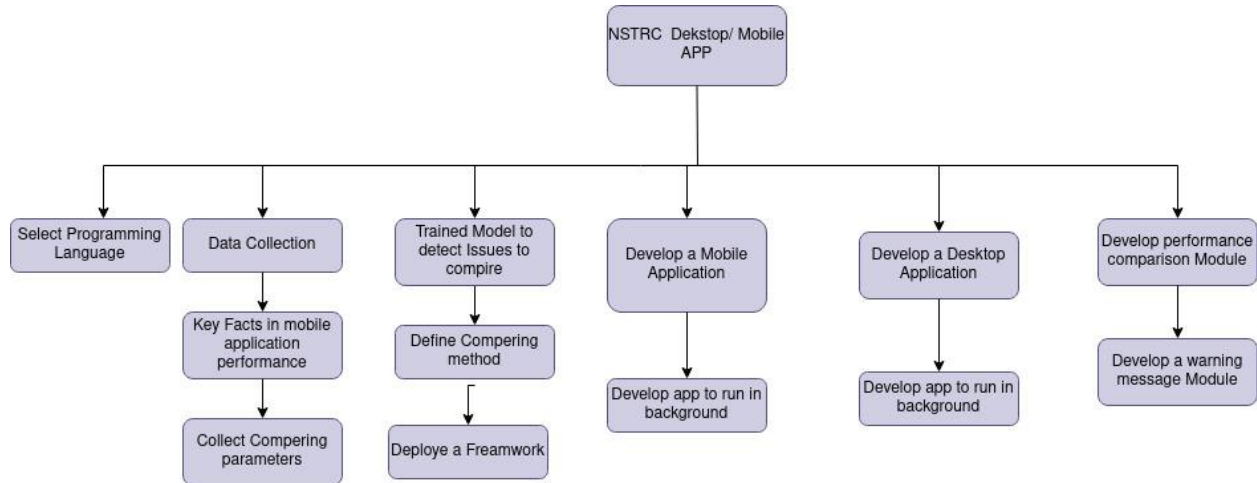


Figure 19 - Actual Gantt Chart of Progress

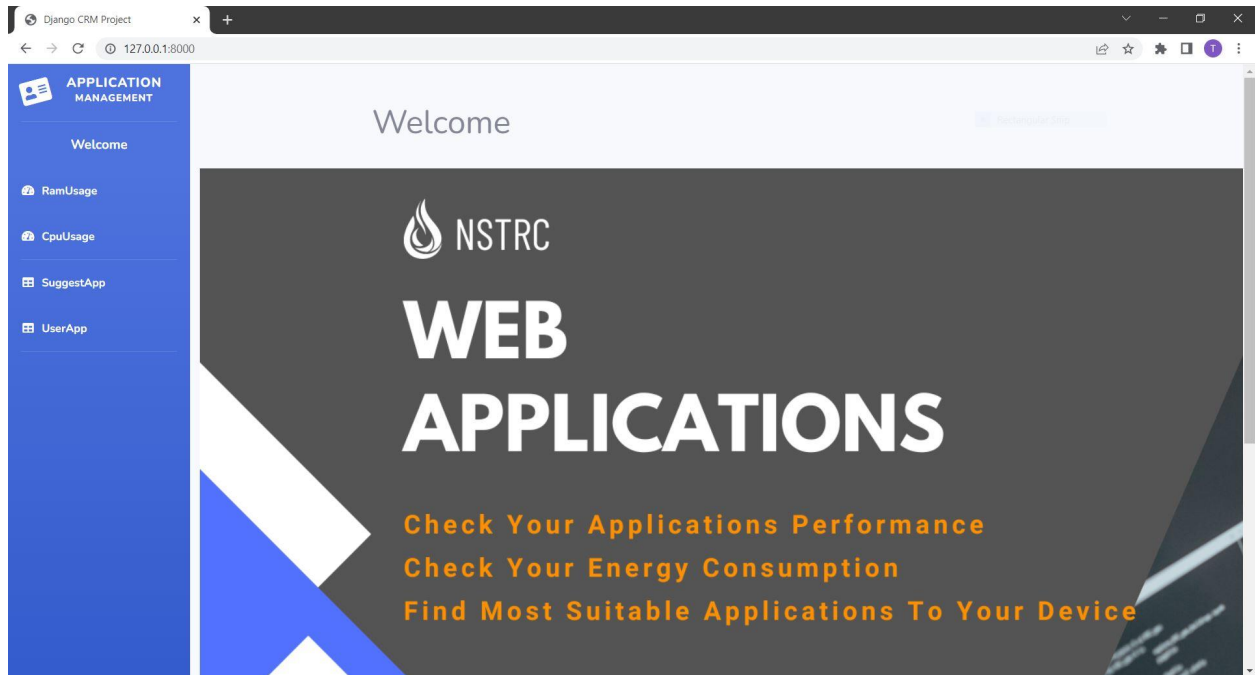
## 04. Work Breakdown Structure



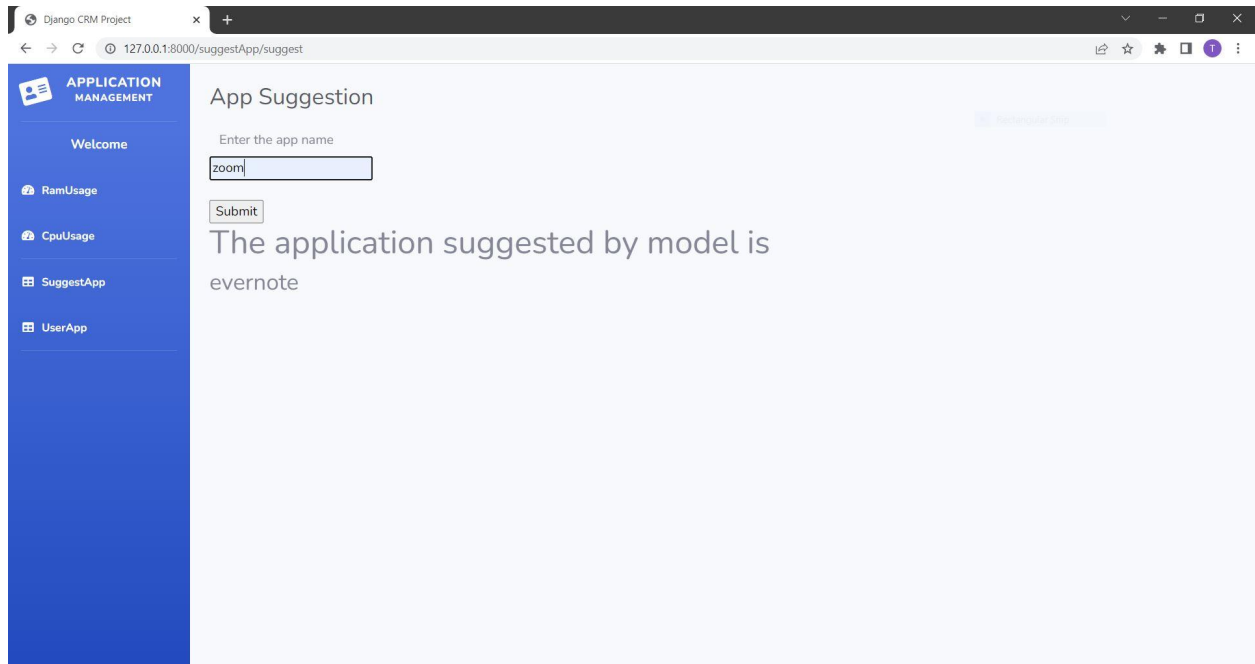
*Figure 20 - Work Breakdown Structure of Component*

## 05. 90% completion of the project - Screenshots

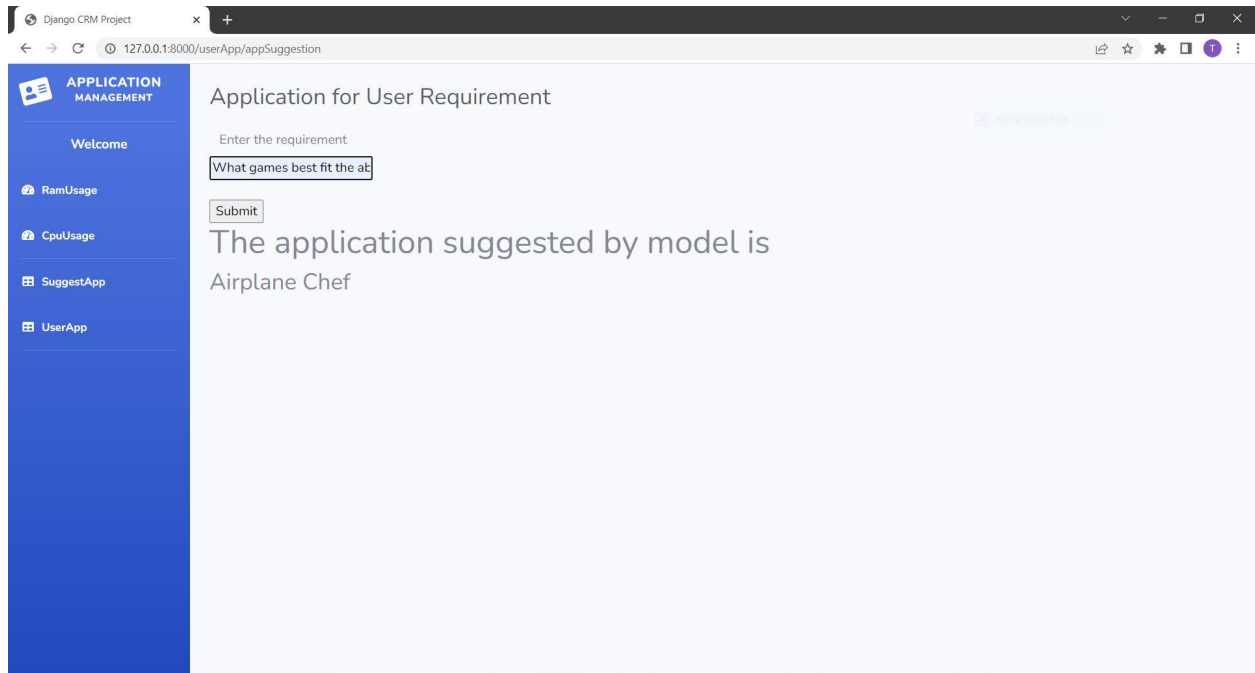
### Web Application



*Figure 21 - NSTRC Web Application Welcome Page*



*Figure 22 - NSTRC Web Application Similar Kind Application Suggestion Page*

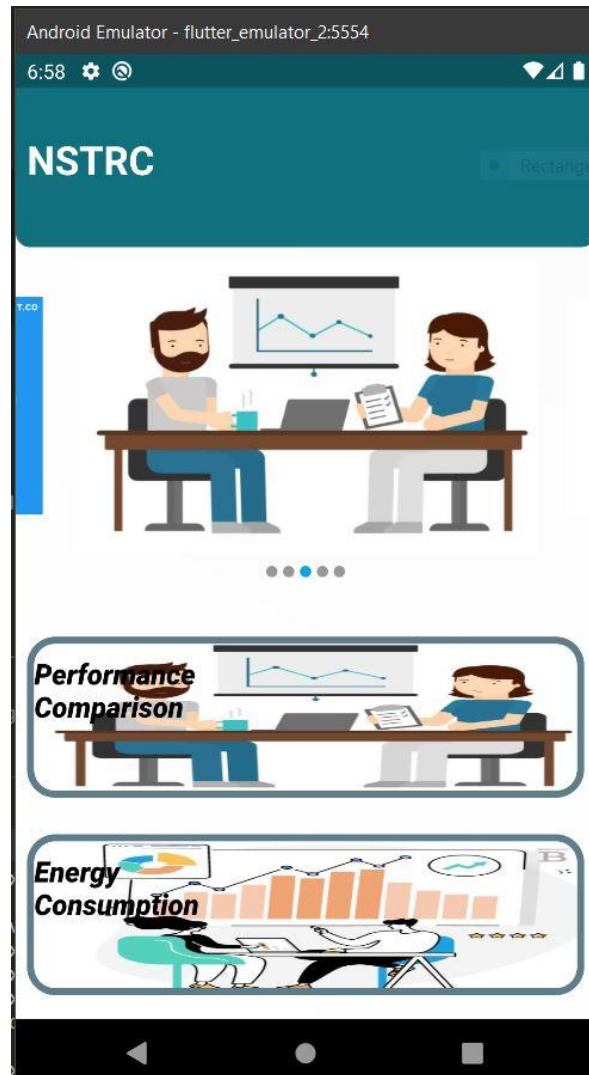


*Figure 23 - NSTRC Web Application Similar Kind Application Suggestion Page Based On User Requirements*

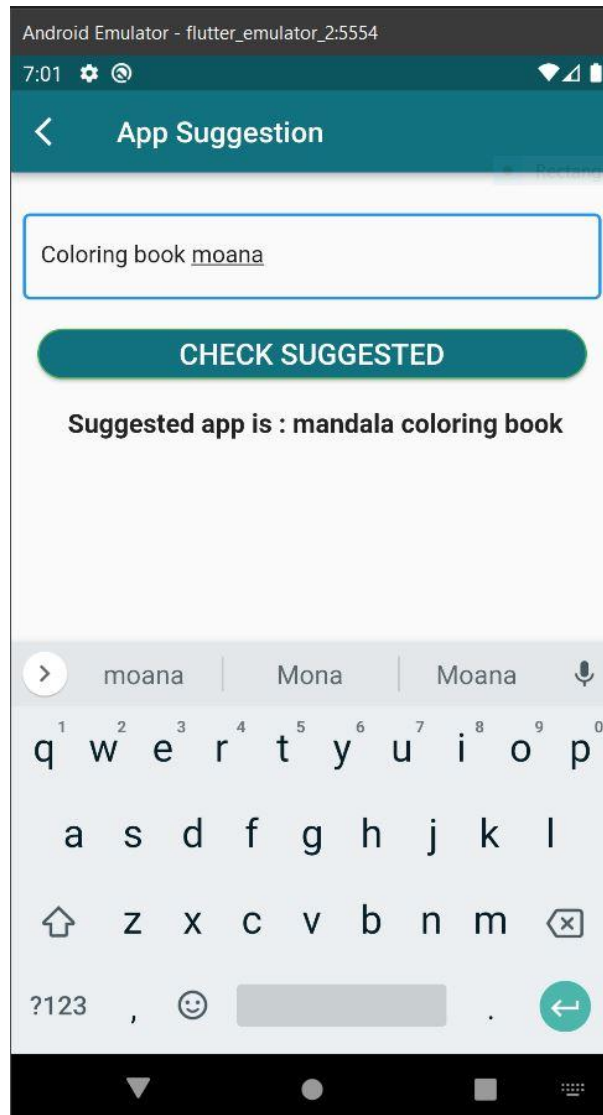
## Mobile Application



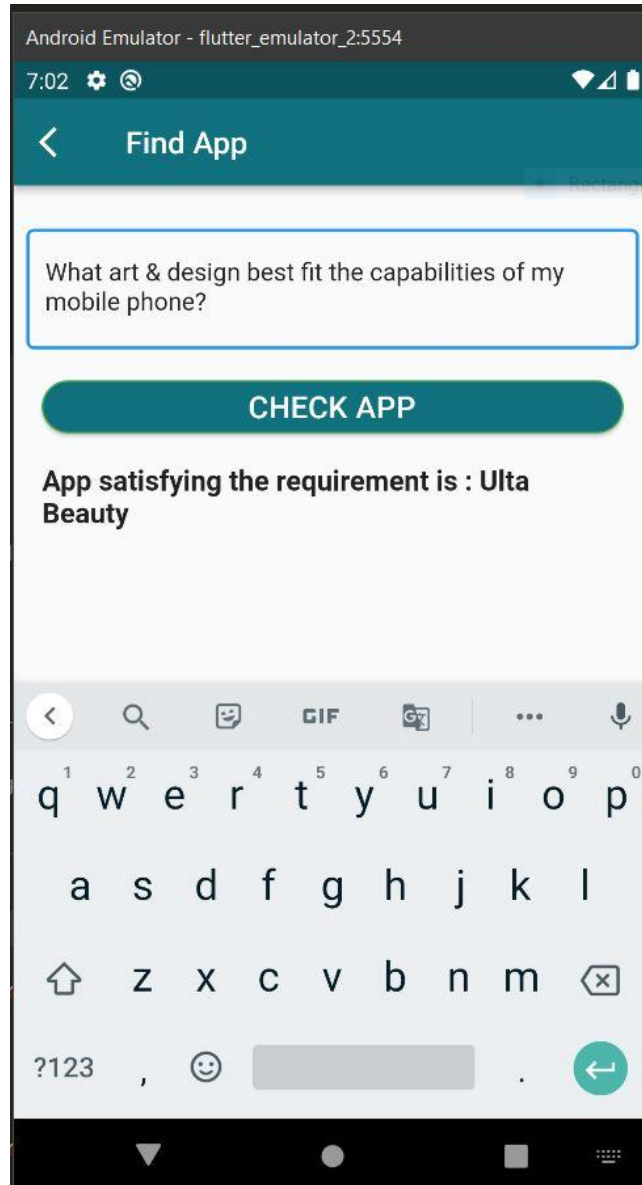
*Figure 24- Splash Screen of NSTRC Mobile Application*



*Figure 25 - Home Screen*



*Figure 26 - Similar Third Party Application Suggestion*



*Figure 27 - Similar Third Party Application Suggestion Based On User Requirements*