

SPRINT DELIVERY PLAN

Project Planning Template (Product Backlog, Sprint Planning,stories,story points)

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|---------------|--|
| Date | 20 October 2022 |
| Team ID | PNT2022TMID29722 |
| Project Name | Efficient Water Quality Analysis And Prediction Using Machine Learning |
| Maximum Marks | 4 Marks |

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

| FUNCTIONAL REQUIREMENT (EPIC) | USER STORY NUMBER | USER STORY / TASK | STORY POINTS | PRIORITY | SPRINT | TEAM MEMBERS |
|-------------------------------|-------------------|---|--------------|----------|----------|---|
| Data Collection | USN-1 | Collect the dataset /creating the dataset | 8 | High | Sprint-1 | <div><div></div>MADHAN KUMAR M</div> <div><div></div>NUBAISH AHAMED S</div> <div><div></div>VIGNESHWAR V</div> <div><div></div>SWETHA V</div> |
| Data Preprocessing | USN-2 | Import the libraries | 1 | Low | Sprint-2 | <div><div></div>SWETHA V</div> <div><div></div>VIGNESHWAR V</div> |
| | USN-3 | Importing the dataset | 1 | Low | Sprint-2 | <div><div></div>NUBAISH AHAMED S</div> <div><div></div>VIGNESHWAR V</div> |
| | USN-4 | Checking for Null values | 1 | Medium | Sprint-2 | <div><div></div>VIGNESHWAR V</div> <div><div></div>NUBAISH AHAMED S</div> |
| | USN-5 | Data Visualization | 1 | Medium | Sprint-2 | <div><div></div>SWETHA V</div> <div><div></div>MADHAN KUMAR M</div> |
| | USN-6 | Taking care of Missing Data | 1 | High | Sprint-2 | <div><div></div>MADHAN KUMAR M</div> <div><div></div>NUBAISH AHAMED S</div> |
| | USN-7 | Performing Label Encoding | 1 | Medium | Sprint-2 | <div><div></div>MADHAN KUMAR M</div> <div><div></div>SWETHA V</div> <div><div></div>NUBAISH AHAMED S</div> <div><div></div>VIGNESHWAR V</div> |
| | USN-8 | Feature Scaling | 1 | Medium | Sprint-2 | <div><div></div>SWETHA V</div> <div><div></div>NUBAISH AHAMED S</div> |
| | USN-9 | Splitting the Data into Train and Test | 1 | High | Sprint-2 | <div><div></div>MADHAN KUMAR M</div> <div><div></div>VIGNESHWAR V</div> |
| Model Building | USN-10 | Training and Testing the model | 4 | High | Sprint-3 | <div><div></div>SWETHA V</div> <div><div></div>NUBAISH AHAMED S</div> |
| | USN-11 | Evaluation of Model | 4 | High | Spint-3 | <div><div></div>SWETHA V</div> <div><div></div>VIGHNESHWAR V</div> |
| Application Building | USN-12 | Create an HTML file | 4 | Medium | Sprint-4 | <div><div></div>MADHAN KUMAR M</div> <div><div></div>VIGNESHWAR V</div> |
| | USN-13 | Build a Python code | 4 | High | Sprint-4 | <div><div></div>SWETHA V</div> <div><div></div>NUBAISH AHAMED S</div> |

Project Tracker, Velocity & Burndown Chart: (4 Marks)

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|----------|--------------------|----------|-------------------|---------------------------|---|------------------------------|
| Sprint-1 | 8 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 8 | 29 Oct 2022 |
| Sprint-2 | 8 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 8 | 05 Nov 2022 |
| Sprint-3 | 8 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 8 | 12 Nov 2022 |
| Sprint-4 | 8 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 8 | 19 Nov 2022 |

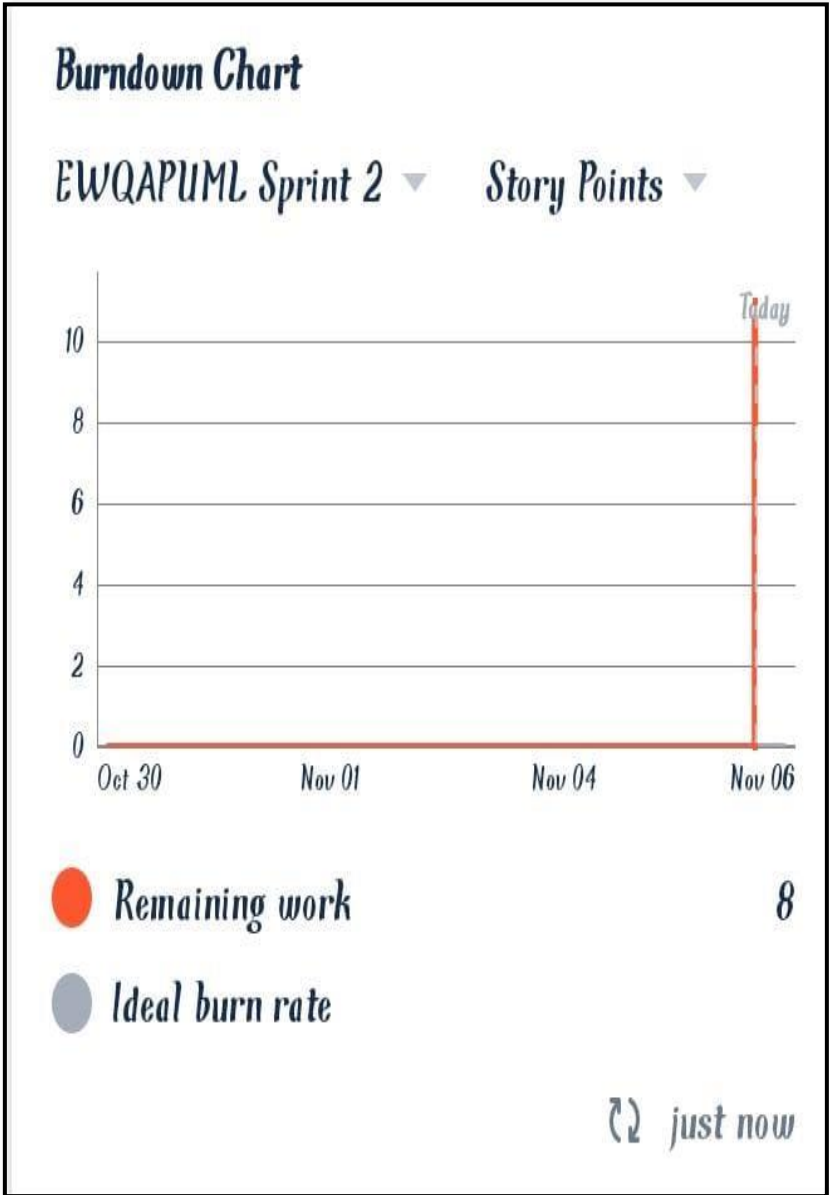
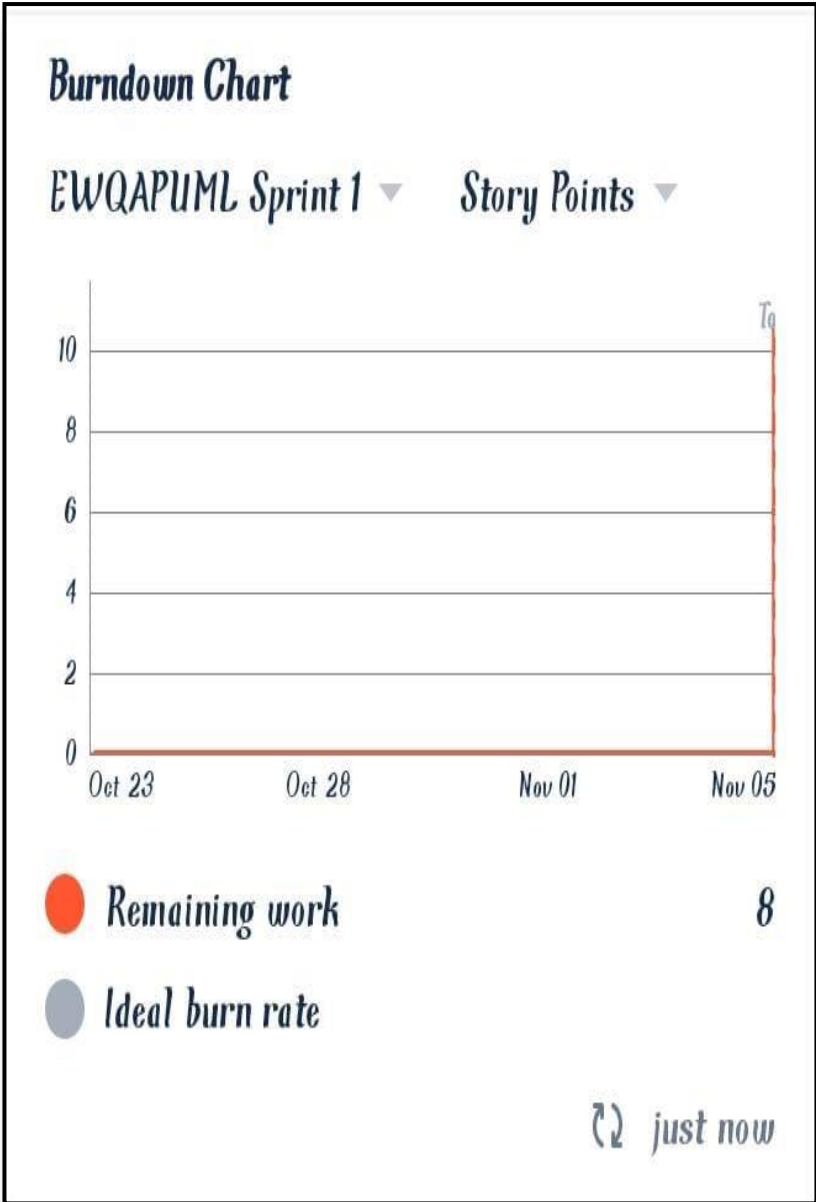
VELOCITY:

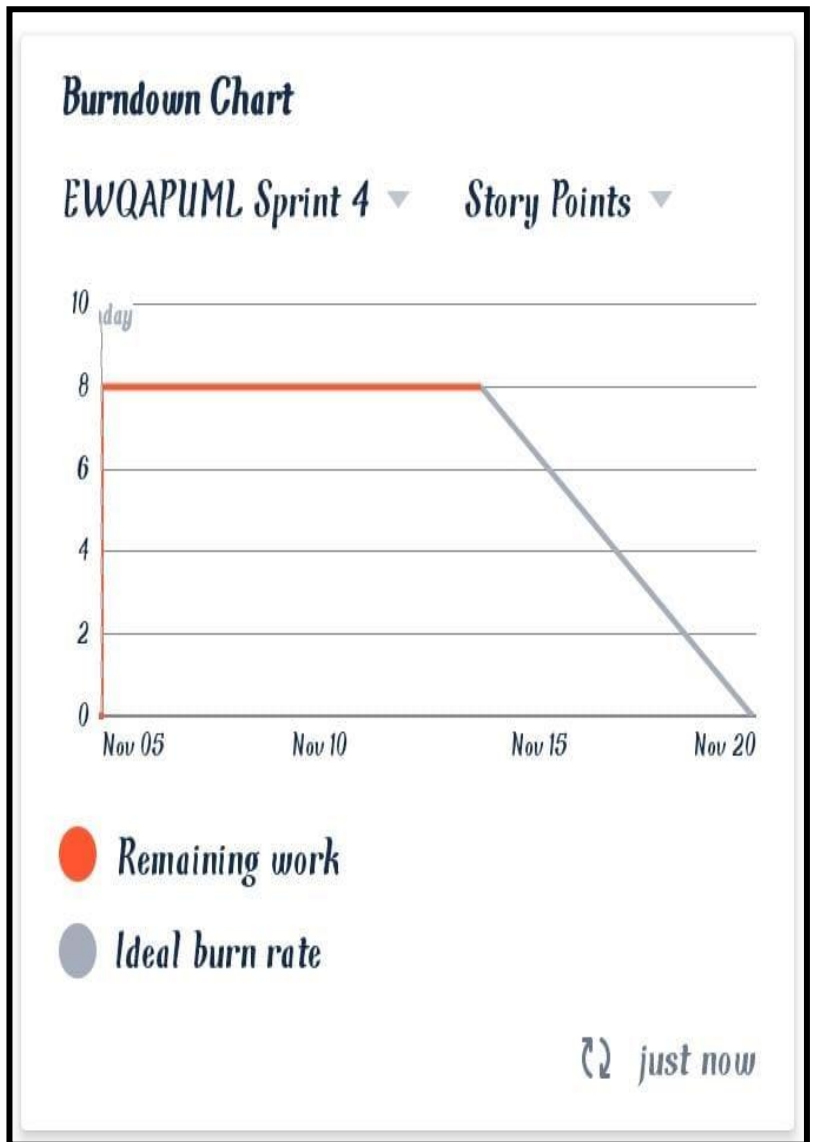
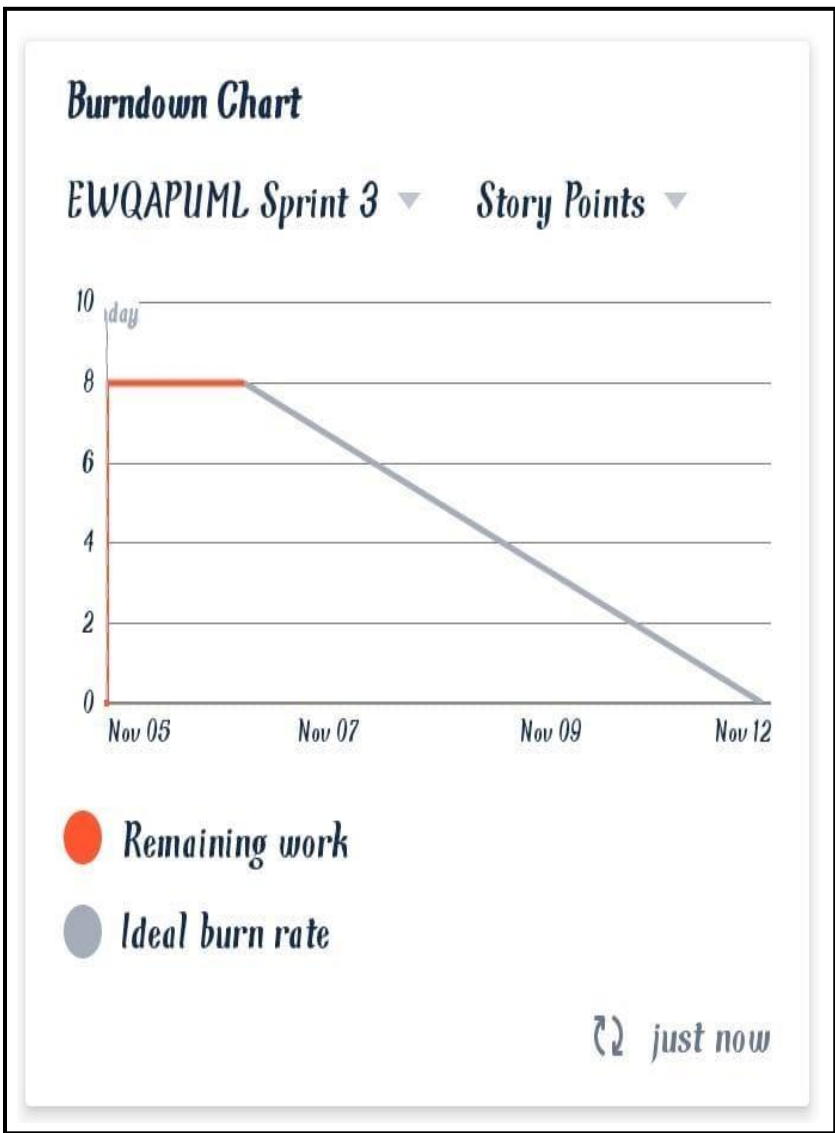
We have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint).Let’s calculate the team’s average velocity (AV) per iteration unit (story points per day).

$$AV = \text{Sprint duration} / \text{Velocity} = 8 / 6 = 1.3$$

BURNDOWN CHART:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.





REFERENCE LINK:

<https://pmt2022tmid29722.atlassian.net/jira/software/projects/EWQAPUML/boards/1/reports/burndown>