

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

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

Use the below template to create product backlog and sprint schedule

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|-----------|-------------------------------|-------------------|---|--------------|----------|------------------------------|
| Sprint-1 | Registration | USN-1 | Creating Login page Creating Registration page | 10 | High | Arunkumar,Abishek,Jachin |
| Sprint-1 | Database Connectivity | USN-2 | To Store details of the customer Connecting UI with Database | 10 | Medium | Arunkumar ,Abishek |
| Sprint-2 | News Tracker UI | USN-3 | Building UI News Tracker Application | 10 | High | Amiz,Jachin,Abishek |
| Sprint-2 | API | USN-4 | Connecting UI with News API, Google News API | 10 | High | Abishek |
| Sprint-3 | SendGrid Integration | USN-5 | SendGrid Integration With Python Code | 10 | Low | Jachin,Amiz |
| Sprint-3 | News Reader (Voice) | USN-6 | Building Voice Assistant to read the news | 10 | Medium | Jachin,Arun |
| Sprint-4 | Containerization | USN-7 | Containerizing the app | 10 | High | Abishek,Arun, Jachin |
| Sprint -4 | Upload image and deployment | USN-8 | Upload Docker image to the IBM Registry and deploy it in the Kubernetes Cluster | 10 | High | Jachin,Amiz, Arun,Abishek |

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 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 19 Nov 2022 |
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Velocity:

Imagine 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

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.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

Reference:

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

