

Project Planning Phase

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

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|---------------|---------------------------------|
| Date | 18 October 2022 |
| Team ID | PNT2022TMID51704 |
| Project Name | Retail Stock Inventory Analysis |
| Maximum Marks | 8 Marks |

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 | As a user, I can register for the application by entering my email, password, and confirming my password. | 2 | High | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |
| Sprint-1 | Registration | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 1 | High | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |
| Sprint-2 | Registration | USN-3 | As a user, I can register for the application through google account or the one provided by the service provider. | 2 | Low | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A.. |

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|----------|--------------|-------|--|---|--------|--|
| Sprint-1 | Registration | USN-4 | As a user, I can register using the collaborated Gmail ID as well. | 2 | Medium | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |
|----------|--------------|-------|--|---|--------|--|

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority | Team Members |
|----------|-------------------------------|-------------------|---|--------------|----------|---|
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by entering email & password | 1 | High | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |
| Sprint-2 | Login | USN-6 | As a user, for more secure protection 2 step authentication will be used. | 1 | High | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |
| Sprint-2 | Login | USN-7 | As a user, it will be redirected to the dashboard interface. | 2 | Medium | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |
| Sprint-3 | Dashboard | USN-8 | As a user, The dashboard will provide suitable information for us the user to decide on the next move for the retail inventory. | 2 | High | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |

| | | | | | | |
|----------|------------------------|--------|---|---|------|---|
| Sprint-3 | Dashboard | USN-9 | As a user, The dashboard will recommend orders to be placed for the right season. | 2 | High | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |
| Sprint-4 | Server & Data Analysis | USN-10 | As a user, The data will be entered using a Barcode scanner or through analysis the items will be then processed and analysis will be done with the given data and a suitable output will be given. | 2 | High | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |
| Sprint-4 | Server & Data Analysis | USN-11 | As a user, The server will itself place the most suitable order and analyse if the stock will sale as soon as possible. | 2 | High | JOBIN J ,PLAMKOOTTATHIL JERLIN JACOB, ANAND VARDHAN , PRANAV A. |

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 | 10 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 10 | 05 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 10 | 12 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | | 19 Nov 2022 |

Velocity:

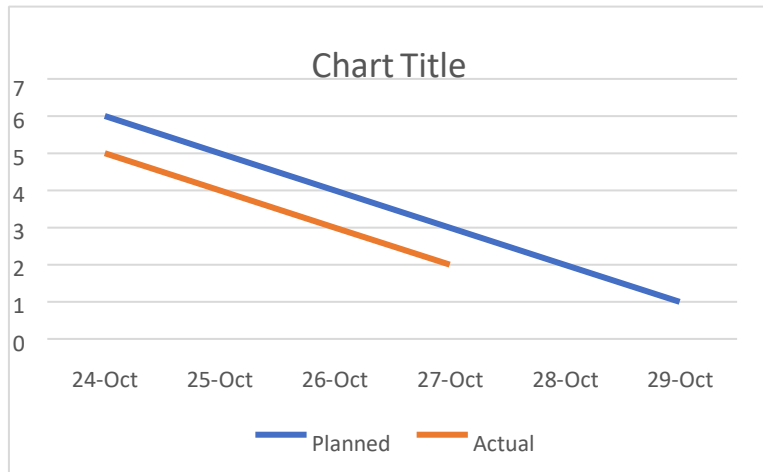
Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

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

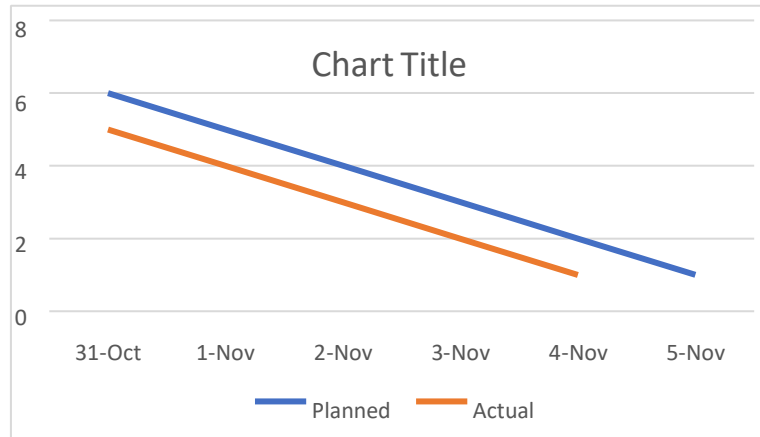
Burndown Chart:

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.

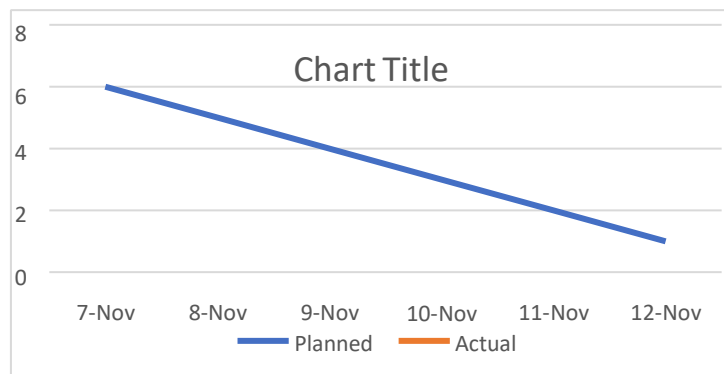
SPRINT-1



SPRINT-2



SPRINT-3



SPRINT-4

