**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 19 April 2025 |
| Team ID | SWTID1745000177 |
| Project Name | ShopEZ: E-commerce Application |
| Maximum Marks | 5 Marks |

**Product Backlog, Sprint Schedule, and Estimation (2 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 | User Registration, Authentication | USN-1 | As a user, I can register via form, Google, or Facebook to access ShopEZ. | 10 | High | Anushka |
| Sprint-1 | User Login | USN-2 | As a user, I can log into ShopEZ using email/password or social logins. | 10 | High | Ayush |
| Sprint-2 | Shopping Cart and Personalized Experience | USN-3 | As a user, I can manage my shopping cart and view personalized recommendations. | 5 | Medium | Anushka |
| Sprint-2 | Product Discovery and Recommendations | USN-4 | As a user, I can search, filter, and explore products with descriptions and reviews. | 15 | High | Ayush |
| Sprint-3 | Seamless Checkout and Order Placement | USN-5 | As a user, I can enter shipping info and place orders through a secure checkout. | 40 | High | Ayush |
| Sprint-4 | Order Confirmation Notifications | USN-6 | As a user, I receive order confirmation via email after purchase. | 10 | Medium | Anushka |
| Sprint-4 | Seller Dashboard and Analytics | USN-7 | As a seller, I can view product performance analytics and manage my orders efficiently. | 10 | High | Anushka |

**Project Tracker, Velocity & Burndown Chart: (2 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 | 5 Days | 1 April 2025 | 4 April 2025 | 20 | 4 April 2025 |
| Sprint-2 | 20 | 5 Days | 27 March 2025 | 30 March 2025 | 20 | 30 March 2025 |
| Sprint-3 | 40 | 8 Days | 2 April 2025 | 5 Aril 2025 | 40 | 5 Aril 2025 |
| Sprint-4 | 20 | 6 Days | 20 March 2025 | 27 March 2025 | 20 | 27 March 2025 |

**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)



|  |  |  |  |
| --- | --- | --- | --- |
| **Sprint** | **Sprint Duration** | **Velocity** | **Average Velocity = Sprint duration/ velocity** |
| Sprint 1 | 5 days | 20 | 4 story points/ day |
| Sprint 2 | 5 days | 20 | 4 story points/ day |
| Sprint 3 | 8 days | 40 | 5 story points / day |
| Sprint 4 | 6 days | 20 | 3.3 story points/day |

**Burndown Chart:**

A burndown chart is a graphical representation of work left to do versus time. It is often used in agile[software development](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/). However, burn down charts can be applied to any project containing measurable progress over time.

[**https://www.visual-paradigm.com/scrum/scrum-b urndown-chart/**](https://www.visual-paradigm.com/scrum/scrum-b%09urndown-chart/)

[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)

**Reference:**

[**https://www.atlassian.com/agile/project-management**](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/how-to-do-scrum-with-jira-software)

[**https://www.atlassian.com/agile/tutorials/epics**](https://www.atlassian.com/agile/tutorials/epics)

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[**https://www.atlassian.com/agile/tutorials/burndown-charts**](https://www.atlassian.com/agile/tutorials/burndown-charts)