**Project Planning Phase**

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

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| --- | --- |
| Date | 6 July 2024 |
| Team ID | SWTID1720110658 |
| Project Name | Book Store |
| Maximum Marks | 4 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 | Registration | USN-1 | As a user, I can register for the application by entering my Firstname,lastname, email, contact information, password, and confirming my password, address,city,state,country,postal code,DOB, prefered genre. | 6 | High |  |
| Sprint-1 | Registration | USN-2 | As a user, I will receive confirmation email once I have registered for the application | 5 | High |  |
| Sprint-1 | Registration | USN-3 | As a user, I can register for the application through Gmail | 6 | Medium |  |
| Sprint-1 | Login | USN-4 | As a user, I can log into the application by entering email & password. | 5 | High |  |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application by Gmail directly | 3 | High |  |
| Sprint-2 | Book Listing | USN-6 | As a user, I can view a list of available books with details like title, author, genre, description, price, and availability status. | 10 | High |  |
| Sprint-2 | Book Selection | USN-7 | As a user, I can filter and select books based on genre, author, ratings, and popularity. | 5 | High |  |
| Sprint-2 | Cart Functionality | USN-8 | As a user, I can add books to my cart and specify quantities. | 5 | High |  |
| Sprint-3 | Purchase Process | USN-9 | As a user, I can securely purchase books, generating an order and updating inventory. | 5 | High |  |
| Sprint-3 | Order Confirmation | USN-10 | As a user, I receive an order confirmation with details of my order. | 5 | High |  |
| Sprint-4 | Order History | USN-11 | As a user, I can view my past and current orders, track shipments, and rate my shopping experience. | 10 | Medium |  |
| Sprint-5 | Organizer Dashboard | USN-12 | As an organizer, I can manage book listings, inventory levels, and orders. | 5 | High |  |
| Sprint-5 | Organizer Dashboard | USN-13 | As an organizer, I can create, view, and update book items. | 5 | High |  |
| Sprint-6 | Admin Dashboard | USN-14 | As an admin, I can manage user accounts, orders, and platform-related activities. | 5 | High |  |
| Sprint-6 | Admin Dashboard | USN-15 | As an admin, I can manage user and organizer accounts comprehensively. | 5 | High |  |
| Sprint-7 | Integration | USN-16 | As a user, I can securely make payments through a third-party payment API. | 5 | High |  |
| Sprint-7 | Integration | USN-17 | As a user, I can track shipments through a third-party shipping logistics API. | 5 | Medium |  |
| Sprint-7 | Integration | USN-18 | As a user, I can receive book recommendations through a third-party API. | 5 | Medium |  |

**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 | 25 | 2 Days | 5 July 2024 | 6 July 2024 | 25 | 6 July 2024 |
| Sprint-2 | 20 | 2 Days | 6 July 2024 | 7 July 2024 | 45 | 7 July 2024 |
| Sprint-3 | 10 | 2 Days | 7 July 2024 | 8 July 2024 | 55 | 8 July 2024 |
| Sprint-4 | 10 | 1 Days | 8 July 2024 | 8 July 2024 | 65 | 8 July 2024 |
| Sprint-5 | 10 | 2 Days | 9 July 2024 | 10 July 2024 | 75 | 9 July 2024 |
| Sprint-6 | 10 | 2 Days | 10 July 2024 | 11 July 2024 | 85 | 10 July 2024 |
| Sprint-7 | 15 | 1 Day | 12 July 2024 | 12 July 2024 | 100 | 12 July 2024 |
|  |  |  |  |  |  |  |

**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)

Velocity for Sprint1:

V = 25/2 = 12.5

Velocity for Sprint2:

V = 20/2 = 10

Velocity for Sprint3,4,5,6:

V = 10/2 = 5

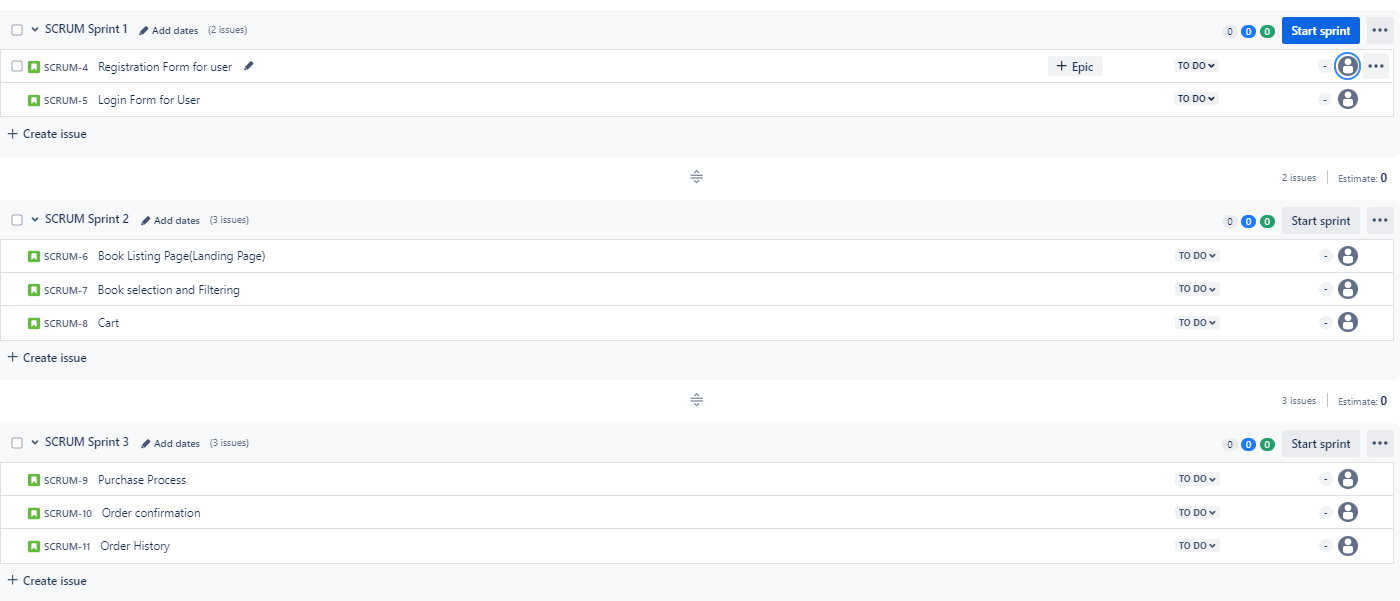
Velocity for Sprint7:

V = 15/2 = 7.5

Average Velocity = 50/7 = 7.14

**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.

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