**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 4 July 2024 |
| Team ID | SWTID1720077433 |
| Project Name | Grocery App |
| Maximum Marks | 4 Marks |

**Product Backlog, Sprint Schedule, and Estimation (2 Marks)**

# Product Backlog and Sprint Schedule

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint 1 | User Registration and Login | 1.1 | As a user, I want to register an account so that I can access the app's features. | 5 | High | [List of Team Members] |
|  |  | 1.2 | As a user, I want to log in to my account so that I can manage my shopping list. | 3 | High | [List of Team Members] |
|  |  | 1.3 | As a user, I want to reset my password if I forget it so that I can regain access to my account. | 3 | Medium | [List of Team Members] |
| Sprint 2 | Browsing Products | 2.1 | As a user, I want to browse products by category so that I can easily find items I need. | 5 | High | [List of Team Members] |
|  | Product Search and Filter | 2.2 | As a user, I want to search for products by name so that I can quickly find specific items. | 5 | High | [List of Team Members] |
|  |  | 2.3 | As a user, I want to filter products by various attributes (price, brand, etc.) so that I can refine my search results. | 4 | Medium | [List of Team Members] |
| Sprint 3 | Shopping Cart Management | 3.1 | As a user, I want to add products to my shopping cart so that I can purchase them later. | 4 | High | [List of Team Members] |
|  |  | 3.2 | As a user, I want to remove products from my shopping cart so that I can manage my selections. | 3 | Medium | [List of Team Members] |
|  |  | 3.3 | As a user, I want to view the contents of my shopping cart so that I can review my selections before checkout. | 3 | High | [List of Team Members] |
| Sprint 4 | Checkout and Payment Processing | 4.1 | As a user, I want to proceed to checkout so that I can complete my purchase. | 5 | High | [List of Team Members] |
|  |  | 4.2 | As a user, I want to enter my payment information securely so that I can pay for my order. | 5 | High | [List of Team Members] |
|  |  | 4.3 | As a user, I want to receive a confirmation of my order so that I know my purchase was successful. | 3 | Medium | [List of Team Members] |
| Sprint 5 | Personalized Recommendations | 5.1 | As a user, I want to receive personalized product recommendations so that I can discover items I might like. | 4 | Medium | [List of Team Members] |
|  |  | 5.2 | As a user, I want to view recommended products based on my past purchases so that my shopping experience is tailored to my preferences. | 4 | Medium | [List of Team Members] |
| Sprint 6 | Inventory Management for Businesses | 6.1 | As a business owner, I want to manage my inventory levels so that I can ensure product availability. | 5 | High | [List of Team Members] |
|  |  | 6.2 | As a business owner, I want to receive alerts when inventory is low so that I can restock in time. | 4 | High | [List of Team Members] |
|  |  | 6.3 | As a business owner, I want to generate reports on inventory levels and sales so that I can make informed decisions. | 5 | Medium | [List of Team Members] |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration (Days)** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint 1 | 11 | 3 | 2024-06-25 | 2024-06-27 | 11 | 2024-06-27 |
| Sprint 2 | 14 | 3 | 2024-06-28 | 2024-06-30 | 14 | 2024-06-30 |
| Sprint 3 | 10 | 3 | 2024-07-01 | 2024-07-03 | 10 | 2024-07-03 |
| Sprint 4 | 13 | 3 | 2024-07-04 | 2024-07-06 | 13 | 2024-07-06 |
| Sprint 5 | 8 | 3 | 2024-07-07 | 2024-07-09 | 8 | 2024-07-09 |
| Sprint 6 | 14 | 3 | 2024-07-10 | 2024-07-12 | 14 | 2024-07-12 |

**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)



**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-burndown-chart/**](https://www.visual-paradigm.com/scrum/scrum-burndown-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)

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

[**https://www.atlassian.com/agile/project-management/estimation**](https://www.atlassian.com/agile/project-management/estimation)

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