**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 | Arun Kumar D,  Hari Vignesh M,  Hari Linga Pradeep M,  Gowtham E |
| Sprint-1 | Login | USN-2 | As a user, I need valid credentials to log in to my application. | 1 | High | Arun Kumar D,  Hari Vignesh  M, Hari Linga  Pradeep M,  Gowtham E |
| Sprint-1 | Data Collection | USN-3 | As a user, I need to gather the data in the form of CSV/XLS and clean the data | 2 | High | Arun Kumar  D, Hari  Linga  Pradeep M |
| Sprint-2 | Upload dataset | USN-4 | As a user, I can view the data of the products | 1 | Low | Hari Vignesh M, Gowtham E |
| Sprint-2 | Data Preparation | USN-5 | As a user, I need to filter it for Data visualization. | 3 | High | Arun Kumar D, Hari Vignesh M |
| Sprint-2 | Data visualization | USN-6 | As a user, I can easily visualize the data in the form of charts. | 4 | Medium | Gowtham  E, Hari  Linga  Pradeep M |
| Sprint-3 | Dashboard | USN-7 | As a user, I can view the summary of the product sales by the help dashboard. | 2 | Medium | Arun  Kumar  D, Hari  Linga  Pradeep |
|  |  |  |  |  |  | M |
| Sprint-3 | Dashboard | USN-8 | As a user, I must plan visualizations in a way that I’m able to gain insights regarding the sales based upon the category of sales and the respective region | 4 | High | Hari Vignesh M, Gowtham E |

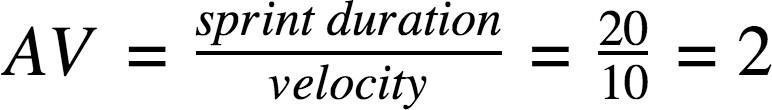
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-3 | Dashboard | USN-9 | As a user, I must be able to gain insights from the charts/graphs through a variety of relationships established in the dashboard. | 4 | Medium | Arun Kumar  D, Hari  Vignesh M |
| Sprint- 4 | Prediction | USN-10 | As a user, I see the prediction of the specific product’s future sales expectation. | 4 | Medium | Gowtham E,  Hari Linga  Pradeep M |
| Sprint- 4 | Report | USN-11 | As a user, I can view the list of categorized products and their details as a report. | 5 | High | Arun Kumar D,  Hari Linga  Pradeep M |
| Sprint-4 | Story | USN-12 | As a user, I can view the product and customer description and more additional information as a story. | 5 | High | Hari Vignesh  M, Gowtham E |

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprints** | **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 | 5 | 29 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 8 | 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 | 14 | 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)



**iteration unit (story points per day)**

|  |  |  |  |
| --- | --- | --- | --- |
| **SPRINT** | **TOTAL STORY POINTS** | **DURATION** | **AVERAGE VELOCITY** |
| **SPRINT-1** | **5** | **6 Days** | **5/6 = 0.833** |
| **SPRINT-2** | **8** | **6 Days** | **8/6 = 1.33** |
| **SPRINT-3** | **10** | **6 Days** | **10/6 = 1.66** |
| **SPRINT-4** | **14** | **6 Days** | **14/6 = 2.33** |

**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 m](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/)ethodologies 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.

**Overall Burndown Chart:**

