Project Planning Phase

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

| Date | 19 October 2023 |
| --- | --- |
| Team ID | NM2023TMID06849 |
| Project Name | Project - Data-Driven insights on Olympic Sports Participation and Performance |
| Maximum Marks | 8 Marks |

# Product Backlog, Sprint Schedule, and Estimation (4 Marks)

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | User authentication | USN-1 | As a user, I want to be able to create an account and log in to the system with my credentials. Also want the system to securely store and manage my personal information | 5 | High | Sowmiya K  Sowmiya.R |
| Sprint-2 | Data collection and Integration | USN-2 | As a data analyst, I want to collect data from various sources, including reservation systems, guest reviews, and financial records, to assess the hotel's performance.  As a user, I want the system to integrate with Radisson's internal databases and external data sources. | 8 | High | Vanisri  Sowmiya s |
| Sprint-3 | Performance metrics dashboard | USN-3 | As a manager, I want to see key performance indicators (KPIs) on a dashboard, including occupancy rates, revenue, guest satisfaction scores, and staff efficiency. | 10 | High | Sowmiya k sowmiyaR |

|  |  |  | As a user, I want the system to generate reports and visualizations for performance analysis. |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-4 | Alerts and notifications | USN-4 | As a manager, I want to receive alerts and notifications when KPIs fall below or exceed predefined thresholds.  As a user, I want to customize the alert settings. | 5 | Low | Sowmiyak  SowmiyaR |
| Sprint-5 | Historical data storage | USN-5 | As a user, I want the system to store historical data for trend analysis and forecasting. | 6 | Medium | Sowmiya S  Vanisri |

**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 | 2 Days | 21 Oct 2023 | 22 Oct 2023 | 20 | 22 Oct 2023 |
| Sprint-2 | 20 | 2 Days | 23 Oct 2022 | 24 Oct 2023 | 20 | 24 Oct 2023 |
| Sprint-3 | 20 | 3 Days | 25 Oct 2023 | 27 Oct 2023 | 20 | 27 Oct 2023 |
| Sprint-4,5 | 20 | 3 Days | 28 Oct 2023 | 30 Oct 2023 | 20 | 30 Oct 2023 |

# Velocity:

For calculating the velocity, team have10-day sprint duration, and the velocity of the team is 20 (points per sprint). Then calculate the team’s average velocity (AV) per iteration unit (story points per day)

**Average Velocity (AV) per iteration unit = Total Velocity / Number of Days**

In this case, the total velocity is 20 points per sprint, and the sprint duration is 10 days. By applying the formula:

AV per iteration unit = 20 points / 10 days = 2 points per day

The team's average velocity per iteration unit is 2 story points per day. This means, on average, the team completes 2 story points worth of work each day during the 10-day sprint.

# Burndown Chart:

A burndown 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.

