**Project Planning Phase**

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

|  |  |
| --- | --- |
| Team ID | PNT2022TMID29241 |
| Project Name | Emerging Methods for Early Detection of Forest Fires |
| Maximum marks | 2Marks |

**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. | 20 | High | Tamizhselvi S  Reshma S A  Nandhini J  Ambika k  Srijha V |
| **Sprint-1** |  | USN-2 | As a user, I will receive confirmation email once I have registered for the application usage. | 20 | High | Tamizhselvi S  Reshma S A  Nandhini J  Ambika k  Srijha V |
| **Sprint-2** | Input | USN-3 | Whenever the fire is detected, the information is given to the database. | 20 | High | Tamizhselvi S  Reshma S A  Nandhini J  Ambika k  Srijha V |
| **Sprint-2** |  | USN-4 | When it is the wildfire then the alarming system is activated. | 20 | High | Tamizhselvi S  Reshma S A  Nandhini J  Ambika k  Srijha V |
| **Sprint-3** | Output | USN-5 | And the alarm also sent to the corresponding departments and made them know that the wildfire is erupted | 20 | High | Tamizhselvi S  Reshma S A  Nandhini J  Ambika k  Srijha V |
| **Sprint-4** | Action | USN-6 | Required actions will be taken in order to control erupted wildfire by reaching as early as possible to the destination with the help of detecting systems. | 20 | High | Tamizhselvi S  Reshma S A  Nandhini J  Ambika k  Srijha V |

**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)

**AV = sprint duration/Velocity =20/10 =2**

Average velocity of sprint-1: AV = 17/8 = 2.125

Average velocity of sprint-2: AV = 11/4 = 2.75

Average velocity of sprint-3: AV = 22/5 = 5.5

Average velocity of sprint-4: AV = 15/4 = 3.75

**Burn down chart**:

A burn down 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.

