**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID34083 |
| Project Name | Project -IoT Enabled Smart farming Applications |
| Maximum Marks | 8 Marks |

**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 | **Hardware** | SFIEFA-1 | **Create a python code.** | **5** | **High** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-1 | **Hardware** | SFIEFA-7 | Set the sensors and wifi module | **5** | **High** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-1 | **Hardware** | SFIEFA-6 | Configure sensors and wi-fi module with python code. | **10** | **High** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-2 | Software | SFIEFA-2 | IBM Watson IoT platform, workflows for IoT scenarios using Node-red. | **5** | **High** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-2 | Software | SFIEFA-10 | Create IBM Watson IoT Platform | **5** | **High** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-2 | Software | SFIEFA-11 | Create a device & configure the IBM IoT Platform | **3** | **Medium** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-2 | Software | SFIEFA-12 | Create Node-RED service | **2** | **Medium** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-2 | Software | SFIEFA-13 | Create a database in cloudant DB to store all the sensor parameters | **1** | **Low** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint 3 | MIT app | SFIEFA-3 | To develop an mobile application using MIT, | **20** | **High** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-4 | Web UI | SFIEFA-4 | To make the user to interact with the software. | **4** | **High** | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-4 | Registration | SFIEFA-16 | As a user, I can register for the application by entering my Gmail, email then you can received the OTP or Verification Code. | 6 | Medium | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-4 | Registration | **SFIEFA-17** | As a user, I will receive confirmation Gmail or email once I have registered for the application. | 1 | Low | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-4 | Registration | **SFIEFA-18** | As a user, I can register for the application through Gmail and phone number. | 2 | Low | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-4 | Login | **SFIEFA-19** | As a user, I can log into the application by entering email & password | 1 | Meduim | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |

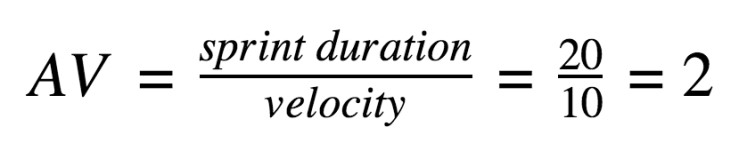
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Story Points** | **Priority** | **Team**  **Members** |
| Sprint-4 | Login | **SFIEFA-20** | Once confirmation message received after login the system and Check Credentials Once check the credentials after go to the Manage modules. | 2 | High | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-4 | Web UI | **SFIEFA-21** | In this manage modules described the below functions like Manage System Admins Manage Roles of User Manage User permission and etc.. | 2 | Medium | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |
| Sprint-4 | Web UI | **SFIEFA-22** | Then check Temperature, humidity and moisture after then logout or exist the application. | 2 | High | Aiswarya  Abarnaa  Akshaya  AriyaKrishna |

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

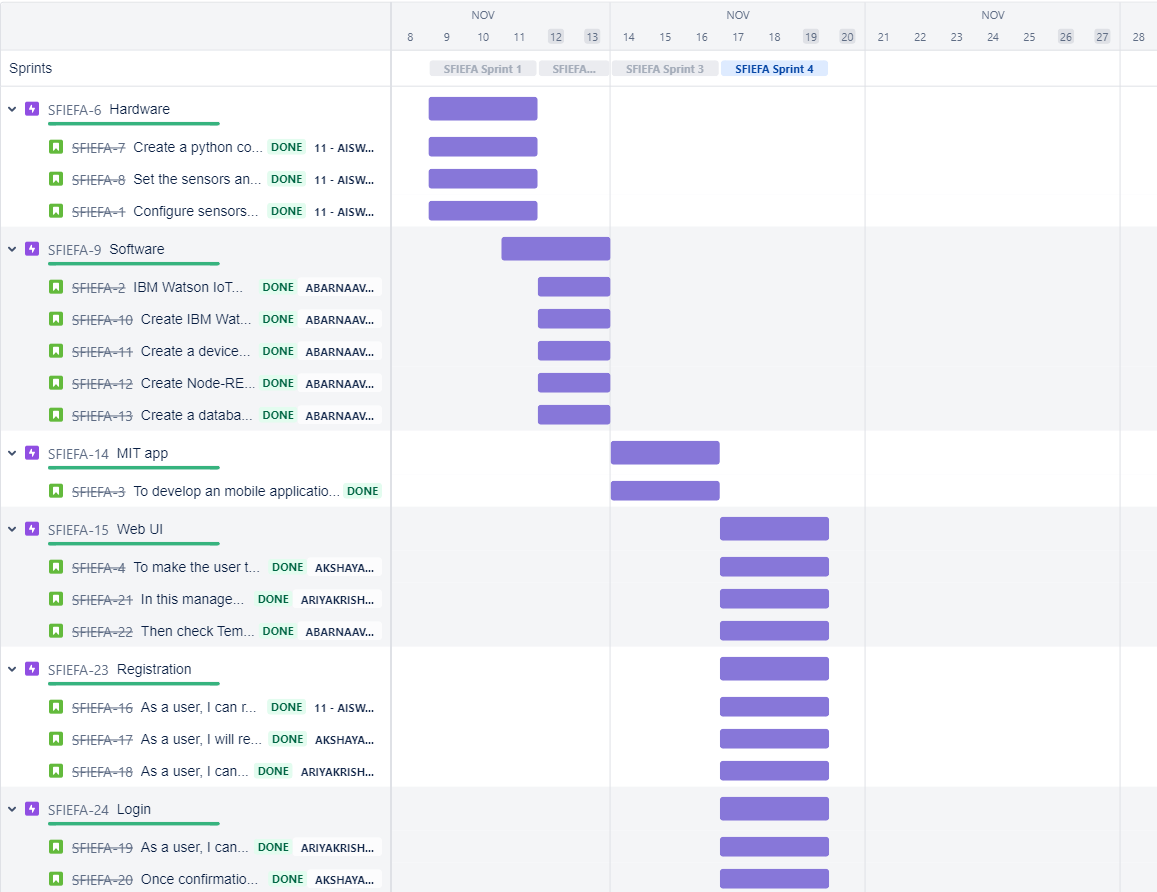
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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date (Planned)** | **Story Points**  **Completed (as on**  **Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint-1 | 20 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 20 | 11 Nov 2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 20 | 13 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 20 | 16 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 20 | 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)



**Burndown Chart:**

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