Project Planning Phase

|  |  |
| --- | --- |
| Team ID | PNT2022TMID41830 |
| Project Name | IoT based Smart crop Protection System for agriculture |
| Maximum Marks | 8 Marks |

# ProductBacklog,SprintSchedule,andEstimation(4Marks)

Usethebelowtemplatetocreateproductbacklogandsprintschedule

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirement(Epic)** | **User Story Number** | **UserStory/Task** | **StoryPoints** | **Priority** | **TeamMembers** |
| Sprint-1 | IBM Cloud services | US-1 | Create the IBM Cloud services which are being used in this project. | 6 | High | Abinaya  Abirami  Gowri  Deepika |
| Sprint-1 | IBM Cloud services | US-2 | Configure the IBM Cloud services which are being used in completing this project. | 4 | Medium | Abinaya  Abirami  Gowri  Deepika |
| Sprint-2 | IBM Watson IoT platform | US-3 | IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform. | 5 | Medium | Abinaya  Abirami  Gowri  Deepika |
| Sprint-2 | IBM Watson IoTbplatform | US-4 | In order to connect the IoT device to the IBM cloud, create a device in the IBM Watso  IoTplatform and get the device credentials. | 5 | High | Abinaya  Abirami  Gowri  Deepika |
| Sprint-3 | IBMvWatson IoTvplatform & Node-RED service | US-1 | Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform. | 10 | High | Abinaya  Abirami  Gowri  Deepika |

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement(Epic)** | **UserStory**  **Number** | **UserStory/Task** | **StoryPoints** | **Priority** | **TeamMembers** |
| Sprint-3 | Node-REDservice | US-2 | Create a Node-RED service. | 10 | High | Abinaya  Abirami  Gowri  Deepika |
| Sprint-3 | IBMIoTplatform | US-1 | Develop a python script to publish random sensor data such as temperature, moisture, soil and humidity to the IBM IoT platform | 7 | High | Abinaya  Abirami  Gowri  Deepika |
| Sprint-3 | IBMIoTplatform | US-2 | After developing python code,commands are received just print the statements which represent the control of the devices. | 5 | Medium | Abinaya  Abirami  Gowri  Deepika |
| Sprint-4 | IBMCloudServices | US-3 | Publish Data toThe IBM Cloud | 8 | High | Abinaya  Abirami  Deepika  Gowri |
| Sprint-4 | Webpage | US-1 | Create Web UI in Node- Red | 10 | High | Abinaya  Abirami  Deepika  Gowri |
| Sprint-4 | IBMIoTplatform | US-2 | Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB  nodes to store the received sensor data in the cloudant DB | 10 | High | Abinaya  Abirami  Deepika  Gowri |

# Project Tracker,Velocity&Burn down Chart:(4Marks)

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total StoryPoints** | **Duration** | **Sprint Start Date** | **Sprint End Date(Planned)** | **Story Points**  **Completed (as on Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint-1 | 20 | 6Days | 24Oct2022 | 29Oct2022 | 20 | 29Oct2022 |
| Sprint-2 | 20 | 6Days | 31Oct2022 | 05Nov2022 | 20 | 05Nov2022 |
| Sprint-3 | 20 | 6Days | 07Nov2022 | 12Nov2022 | 20 | 12Nov2022 |
| Sprint-4 | 20 | 6Days | 14Nov2022 | 19Nov2022 | 20 | 19Nov2022 |

**Velocity:**

Imagine we have a10-day sprint duration,and the velocity oftheteamis20(points per sprint).Let’s calculate the team’s average velocity(AV)per iteration unit(story points per day)



# BurndownChart:

A burndown chart is a graphical representation of work left to do versus time However, burndown charts can be applied to any project containing measurableprogress overtime.

