**Project PlanningPhase**

**ProjectPlanningTemplate(ProductBacklog,SprintPlanning,Stories,Storypoints)**

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| Date | 19September2022 |
| TeamID | PNT2022TMID06413 |

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| **Sprint** | **FunctionalRequirement(Epic)** | **User StoryNumber** | **UserStory/Task** | **StoryPoints** | **Priority** | **TeamMembers** |
| Sprint-1 | Registration | USN-1 | As a user, I can register for the application byentering my email, password, and confirmingmypassword. | 2 | High | Dharani Dharan , Kavinprasad |
| Sprint-1 |  | USN-2 | As a user, I will receive confirmation emailonceIhave registeredfortheapplication | 1 | High | Dharani Dharan , Kavinprasad |
| Sprint-2 |  | USN-3 | Asauser,IcanregisterfortheapplicationthroughFacebook | 2 | Low | Dharani Dharan , Kavinprasad |
| Sprint-1 |  | USN-4 | Asauser,IcanregisterfortheapplicationthroughGmail | 2 | Medium | Dharani Dharan , Kavinprasad |
| Sprint-1 | Login | USN-5 | As a user, I can log into the application byenteringemail&password | 1 | High | Dharani Dharan , Kavinprasad |
|  | Dashboard |  |  |  | High |  |

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| **Sprint** | **FunctionalRequirement(Epic)** | **User StoryNumber** | **UserStory/Task** | **StoryPoints** | **Priority** | **TeamMembers** |
| Sprint -2 | User interfaceexperience | USN-6 | AsauserIneeda properuser interfaceforthe  project which was contain the graphicalrepresentationofreceived datafromthesensors | 2 | High | Dharani Dharan , Kavinprasad |
| Sprint -2 |  | USN-7 | Asa user, I can create a IBM cloud account forthe data base which should able to store the dataandgather the datafromthe sensors | 1 | Medium | Dharani Dharan , Kavinprasad |
| Sprint -2 |  | USN-8 | As I a user I can create node-red app forprovidingcommandstothesensorsinthe IBM  cloud | 2 | Medium | Dharani Dharan , Kavinprasad |
| Sprint -2 |  | USN-9 | As a user, I can create IOT Watson assistant forconvertingthesensorsdatatothedigital data | 2 | Low | Dharani Dharan , Kavinprasad |
| Sprint -2 |  | USN-10 | As a user, I can create a fast to SMS app Forprovidingalerttheuserwhichconsumingwater  was nothavethequality ofconsumable | 1 | High | Dharani Dharan , Kavinprasad |
| Sprint -2 |  | USN-11 | AsIauser,Icanmakecloudant data base inthe  IBM cloud for storing the data from the sensorsforfuturereferences | 2 | High | Dharani Dharan , Kavinprasad |
| Sprint -3 | App interfacecreation | USN-12 | AsIa user,IcanusetheMITAPPINVERTER  for creating the user interface which containsinterfacebetween ofIBM cloud | 1 | Medium | Dharani Dharan , Kavinprasad |
| Sprint -3 |  | USN-13 | As I am a user, I can create a dashboard whichwas containinggraphicalrepresentingthe  sensorsmeasurements | 1 | Medium | Dharani Dharan , Kavinprasad |
| Sprint -3 |  | USN-14 | AsIamauser,Icansaveor delete theprevious  measurements which was contain the sensormeasurements | 2 | High | Dharani Dharan , Kavinprasad |
| Sprint -3 |  | USN-15 | As I am a user, I need the devices was properlyinsulated and the devices was must be a waterresistant | 2 | High | Dharani Dharan , Kavinprasad |
| Sprint -3 |  | USN-16 | As I am a user, I can create the devices whichwas implementedinthe projectshouldbe | 1 | Low | Dharani Dharan , Kavinprasad |

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| **Sprint** | **FunctionalRequirement(Epic)** | **User StoryNumber** | **UserStory/Task** | **StoryPoints** | **Priority** | **TeamMembers** |
|  |  |  | maintainproperlywiththeparticularintervalof  time |  |  |  |
| Sprint -3 |  | USN-17 | As I am a user, I need a simultaneous datacollectingdatafrom thesensorsandalsosave  the received data to the cloudant /clouddashboard | 2 | Low | Ganesh Kumar , Ganeshan , Tamizhan |
| Sprint -3 |  | USN-18 | As a user, I can manage the devices which wasimplementedintheproject | 1 | High | Ganesh Kumar , Ganeshan , Tamizhan |
| Sprint -3 | Userdevelopment | USN-19 | As a admin, I can manage all the devices andfindthedrawbacks andalsorectify that | 1 | High | Ganesh Kumar , Ganeshan , Tamizhan |
| Sprint -3 |  | USN-20 | As a admin, I can manage the devices whichwasnot workingnot properlyIshouldreplace  that device | 1 | Medium | Ganesh Kumar ,Ganeshan ,Tamizhan |
| Sprint -3 |  | USN-21 | As a admin, I can monitor the devices whichwas sendingthecorrectdataornot | 1 | Low | Ganesh Kumar , Ganeshan ,Tamizhan |
| Sprint -3 |  | USN-22 | As a admin, I can make changes in the userinterface which was able to understand themeasurementswaseasilyunderstandableby  user/industryperson | 2 | High | Ganesh Kumar , Ganeshan , Tamizhan |
| Sprint -4 | Usercommandcentre | USN-23 | Asaadmin, Ican createthecommandoptionin  the user interface and able to perform thedevicesbasedon the commands | 2 | High | Ganesh Kumar , Ganeshan , Tamizhan |
| Sprint -4 |  | USN-24 | As a user, I can give the command to the devicewhich was already able understand thecommandandalsoperformthefunctionwhich  wasmentioninthecommand | 2 | Medium | Ganesh Kumar , Ganeshan , Tamizhan |
| Sprint -4 |  | USN-25 | As a user, I can need user interface was alwaysbe an eco-friendly which was designed in theuserinterface | 2 | Medium | Ganesh Kumar , Ganeshan , Tamizhan |
| Sprint -4 |  | USN-26 | As a user, I need a user interface which wascontainsHTTP commandformatand also  shouldcontainthewebpageinterface | 1 | High | Ganesh Kumar , Ganeshan , Tamizhan |

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| **Sprint** | **FunctionalRequirement(Epic)** | **User StoryNumber** | **UserStory/Task** | **StoryPoints** | **Priority** | **TeamMembers** |
| Sprint -4 |  | USN-27 | As a user, I can make the measurements wasalsocapable toknowthe webinterface | 1 | Low | Ganesh Kumar , Ganeshan , Tamizhan |
| Sprint -4 |  | USN-28 | Asauser,Ineedaproperstatement ofthemeasurementsofthedata and also | 1 | Low | Ganesh Kumar , Ganeshan , Tamizhan |

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

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| **Sprint** | **Total StoryPoints** | **Duration** | **SprintStartDate** | **Sprint End Date(Planned)** | **Story PointsCompleted(ason**  **PlannedEndDate)** | **Sprint Release Date(Actual)** |
| Sprint-1 | 20 | 6Days | 24Oct2022 | 29Oct2022 | 20 | 29Oct2022 |
| Sprint-2 | 20 | 6Days | 31Oct2022 | 05 Nov2022 | 20 | 05 Nov2022 |
| Sprint-3 | 20 | 6Days | 07 Nov2022 | 12 Nov2022 | 20 | 12 Nov2022 |
| Sprint-4 | 20 | 6Days | 14 Nov2022 | 19 Nov2022 | 20 | 19 Nov2022 |

**Velocity:**

Imaginewehavea10-daysprintduration,andthevelocityoftheteamis20(pointsper sprint).Let’scalculatetheteam’saveragevelocity(AV)periterationunit(storypoints perday)



**Theaveragevelocity(AV)periterationunit=3.33**

**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](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/) methodologies such as [Scrum](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/).However,burn down chartscan beapplied toanyprojectcontainingmeasurable progress overtime.

