# DEPARTMENTOFELECTRONICSANDCOMMUNICATIONENGINEERINGIBMNALAIYATHIRANPROJECT

**ProjectPlanningPhase**

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| --- | --- |
| Date | 21October2022 |
| TeamID | PNT2022TMID28861 |
| ProjectName | IoTBasedSmartCropProtectionSystemforAgriculture |
| MaximumMarks | 8 Marks |

# ProjectPlanning(ProductBacklog,SprintPlanning,Stories,storypoints)

ProductBacklog,SprintSchedule,andEstimation(4Marks)

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **FunctionalRequirement(Epic)** | **User StoryNumber** | **UserStory/Task** | **StoryPoints(40)** | **Priority**  **(LowtoHigh)** | **TeamMembers** |
| Sprint-1 | Registration | USN-1 | As a user, I can register for the required datasetbyenteringmyemail,password,andconfirmingmypassword. | 3 | High | PsKavya |
| Sprint-1 |  | USN-2 | As auser,Iwillreceiveconfirmationemailandthe SMS once I have registered for theapplication | 2 | High | PsKavya |
| Sprint-2 | Cloudservices | USN-3 | As a user,IcanregisterfortheapplicationthroughFacebookoranysocialmedia | 1 | Low | T Kirubasri |
| Sprint-4 |  | USN-4 | As a user,IcanregisterfortheapplicationthroughGmail/webservice | 2 | Medium | AAbinaya |
| Sprint-3 | Login | USN-5 | Asauser,Ican logintotheapplicationnetworkbyenteringemail&password | 4 | High | Hemabharathi |
| Sprint-2 | Preprocessing | USN-6 | As a farmer, the user must be able to find thesystem easy to access so pre-processes and othertaskmust beperfect. | 3 | High | Tkirubasri |
| Sprint-1 | CollectingDataset | USN-7 | Tocollectvarioussourcesofanimalthreatsandkeepdevelopingadataset. | 3 | Medium | PsKavya |
| Sprint-4 | Integrating | USN-8 | Tointegratetheavailabledatasetandkeepimprovingtheaccuracyof findinganimals | 2 | High | AAbinaya |
| Sprint-3 |  | USN-9 | Tofindanduseappropriatecompilertorunandtest the data so that we can implement ourprogram | 1 | Low | Hemabharathi |
| Sprint-2 |  | USN-10 | Request Saveetha Engineering College todeploytheprojectinourcampusandtest | 1 | Low | T Kirubasri |
| Sprint-1 | Training | USN-11 | As programmer, we need to train our dataperfectlysothattheprogram runssmoothly | 3 | High | PsKavya |
| Sprint-3 |  | USN-12 | TrainthedatausingoutavailableservicesandIBMdatasetfromserverandimprovethat | 2 | Medium | Hemabharathi |
| Sprint-4 | Coding | USN-13 | Tomodifythecodeaccordingtoourprogramandimprovetheefficiencyofthat code | 4 | High | AAbinaya |
| Sprint-2 |  | USN-13 | Toimproveperformance | 1 | Low | TKirubasri |
| Sprint-2 | Record | USN-5 | Torecordthedataandplotthegraphtoshowthecharacteristicsofficially | 4 | High | T Kirubasri |
| Sprint-1 | Planning | USN-4 | Plantheprogramminglanguageandfeasibility | 3 | Medium | Ps Kavya ,AAbinaya |
| Sprint-4 |  | USN-14 | Demonstratetheworkingandimproveaccuracyoverall | 2 | Low | AAbinaya |

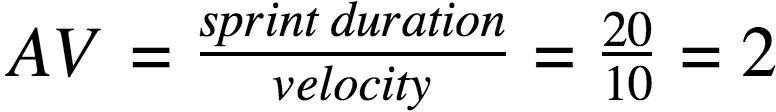
**ProjectTracker,Velocity&BurndownChart:(4Marks)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total StoryPoints** | **Duration** | **Sprint StartDate** | **Sprint End Date(Planned)** | **Story PointsCompleted**  **(asonPlannedEnd**  **Date)** | **Sprint ReleaseDate(Actual)** |
| Sprint-1 | 20 | 5 Days | 20 Oct2022 | 24 Oct2022 | 20 | 21 Oct2022 |
| Sprint-2 | 20 | 5 Days | 25 Oct2022 | 29 Oct2022 | 20 | 27 Oct2022 |
| Sprint-3 | 20 | 5 Days | 31 Oct2022 | 4Nov2022 | 20 | 2Nov2022 |
| Sprint-4 | 20 | 7 Days | 5Nov2022 | 11Nov2022 | 20 | 8Nov2022 |

## Velocity:

Wehavea23-daysprintduration,andthevelocityoftheteamis 20 (points persprint).

ToFind:Calculatetheteam’s averagevelocity(AV)periterationunit(storypoints perday)



## BurndownChart:

Aburndownchartisagraphicalrepresentationofworklefttodoversustime.Itisoftenusedinagile[softwaredevelopmentm](https://www.visual-paradigm.com/scrum/what-is-agile-software-development/)ethodologies such as [Scrum.](https://www.visual-paradigm.com/scrum/scrum-in-3-minutes/)However, burn down charts can be applied to any projectcontainingmeasurableprogressovertime.

Project:IoTBasedSmartCropProtectionSystemforAgriculture

