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

| | |
|---|---|
| Date | 07November2022 |
| Team ID | PNT2022TMID37993 |
| Project Name | Emerging Methods For Early Detection of Forest fire |
| Maximum Marks | 8 Marks |

**Product Backlog, Sprint Schedule, and Estimation(4Marks)**

| Sprint | Functional Requirement (Epic) | User Story Number | User Story/Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-1 | Download dataset | USN-1 | The data is downloaded from the Kaggle website and then the datasetis classified into training and Testing images. | 10 | High | Mani Bharathi. B<br>Balaji. R |
| Sprint-1 | Image pre-processing | USN-1 | In Image processing technique the first step isusually importing the libraries that will be needed in the program.<br><br>Import Keras library from that library and import the Image Data Generator Library to your Python script.<br><br>The next step is definig the arguments for the Image Data Generator . Here the arguments which we are given inside the imaged at a generator class | 10 | High | Mani Bharathi.B<br>Balaji.R |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | are,rescale,shear_range,rotationrangeofimage,andzoomrangethatwecanconsiderforimages.<br>ThenextstepisapplyingtheImageDataGeneratorargumentstothetrainandtestdataset. | | | |
| Sprint-2 | Training image | USN-2 | In this training phase the Image Data Generator arguments is applied to the training images and the model istested with several images and them odelissaved. | 20 | High | Akash.G<br>Balaji. R<br>Mani Bharathi.B<br>Manikandan.v |
| Sprint-3 | Testing image | USN-3 | In this testing phase the Image processingtechniquesisappliedtothetestingimagesandexecutedforprediction. | 20 | High | Akash.G<br>Balaji. R<br>Mani Bharathi.B<br>Manikandan.v |
| Sprint-4 | Evaluation metrics and accuracy | USN-4 | In this phase the result ,prediction ,accuracy, and performance of the project are tested. | 20 | High | Akash.G<br>Balaji. R<br>Mani Bharathi.B<br>Manikandan.v |

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

| 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 | 6Days | 24Oct2022 | 29Oct2022 | 20 | 07Nov2022 |
| Sprint-2 | 20 | 6Days | 31Oct2022 | 05Nov2022 | 20 | 07Nov2022 |
| Sprint-3 | 20 | 6Days | 07Nov2022 | 12Nov2022 | 20 | 12Nov2022 |
| Sprint-4 | 20 | 6Days | 14Nov2022 | 19Nov2022 | 20 | 19Nov2022 |

**Velocity:**

Imaginewehavea10-daysprintduration,and the velocity of the teamis20(points per) sprint).Let'scalculatetheteam'saveragevelocity(AV)periterationunit(storypoints per day).

AV=Sprint Duration/velocity=20/6=3.33.