**Project Planning Phase**

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| --- | --- |
| Date | 27 October 2022 |
| Team ID | PNT2022TMID19532 |
| Project Name | FERTILIZERS RECOMMENDATION SYSTEM FOR DISEASE PREDICTION |
| 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 | Data collection and preprocessing | USN-1 | Collecting plant disease dataset | 2 | Low | Barath N |
| Sprint-1 |  | USN-2 | Labelling the dataset according to class | 2 | Medium | Kanmani R |
| Sprint-1 |  | USN-3 | 38 types of plant diseases is labeled accordingly | 3 | Medium | Dinesh kumar M |
| Sprint-1 |  | USN-4 | Data set Will contain both healthy and diseased data | 1 | Low | Dharun pandian R |
| Sprint-1 | Preprocessing | USN-5 | To prepare raw data in a format that the network can accept | 2 | High | Kanmani R |

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| Sprint-1 |  | USN-6 | Scaling is used for making data points generalized | 1 | Low | Barath N |
| Sprint-1 |  | USN-7 | Shear range image will be distorted along an axis, mostly to create or rectify the perception angle | 3 | High | Dharun pandian R Dinesh kumar M |
| Sprint-1 |  | USN-8 | Zoom Augmentation will randomly zoom the image and adds new pixels for the image | 3 | High | Kanmani R Barath N |
| Sprint-1 |  | USN-9 | Flipping the entire pixels of an image horizontally | 3 | High | Dinesh kumar M  Dharun pandian R |
| Sprint-2 | Training , Testing and Creating a model | USN-10 | Start initiating the model | 3 | Medium | Kanmani R  Dharun pandian R |
| Sprint-2 |  | USN-11 | Adding different layers of cnn( convolution, pooling dense , flatten ) | 2 | Medium | Barath N |
| Sprint-2 |  | USN-12 | Creating/compiling with adam optimizer | 1 | Medium | Dinesh kumar M |
| Sprint-2 |  | USN-13 | Keras - Categorical Cross Entropy Loss Function for multi-class classification | 2 | Medium | Dharun pandian R |
| Sprint-2 |  | USN-14 | creating metrics | 2 | Medium | Dinesh kumar M |
| Sprint-2 |  | USN-15 | train the data with 20 epoch | 3 | High | Barath N  Kanmani R |

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| --- | --- | --- | --- | --- | --- | --- |
| Sprint-2 |  | USN-16 | testing the model | 5 | High | Dharun pandian R  Dinesh kumar M  Kanmani R |
| Sprint-2 |  | USN-17 | save the model | 2 | Medium | Barath N |
| Sprint-3 | Flask and Frame workdesign | USN-18 | Creating backend framework with flask | 8 | High | Dinesh kumar M  Kanmani R  Barath N |
| Sprint-3 |  | USN-19 | importing the model file | 3 | Medium | Dharun pandian R |
| Sprint-3 |  | USN-20 | Create route to link htmlRoutes and View Functions in Flask Framework index file | 5 | High | Kanmani R  Barath N |
| Sprint-3 |  | USN-21 | Server Startup, requests and services in a loop | 4 | Medium | Dinesh kumar M  Kanmani R |
| Sprint-4 | Front end web application development | USN-22 | creating a html template with css file | 8 | High | Dinesh kumar M  Kanmani R  Barath N  Dharun pandian R |
| Sprint-4 |  | USN-23 | user can import diseased plant leaf in web page | 2 | Medium | Dinesh kumar M  Kanmani R  Barath N  Dharun pandian R |
| Sprint-4 |  | USN-24 | predicting what is the type of disease occurred for the given input | 2 | Medium | Kanmani R  Barath N |
| Sprint-4 |  | USN-25 | User can classify as healthy or diseased | 2 | Medium | Dharun pandian R  Dinesh kumar M |
| Sprint-4 |  | USN-26 | if plant has disease then suggest fertilizer and pesticides | 3 | Medium | Kanmani R  Barath N |
| Sprint-4 |  | USN-27 | alert the admin about the prediction with the gmail | 3 | Medium | Dinesh kumar M  Kanmani R |

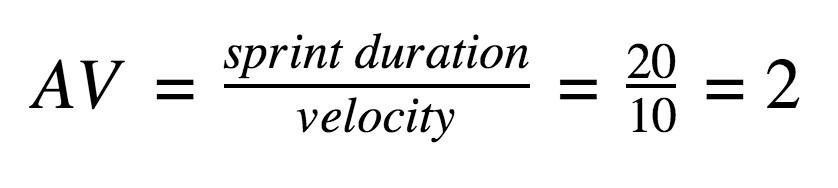
**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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 | 28 Oct 2022 | 03 Nov 2022 | 20 | 27 Oct 2022 |
| Sprint-2 | 20 | 6 Days | 04 Nov 2022 | 09 Nov 2022 | 20 | 03 Nov 2022 |
| Sprint-3 | 20 | 6 Days | 10 Nov 2022 | 16 Nov 2022 | 20 | 10 Nov 2022 |
| Sprint-4 | 20 | 6 Days | 17 Nov 2022 | 23 Nov 2022 | 20 | 17 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)



**VELOCITY CHART:**



0



5



10



15



20



25



SPRINT1



SPRINT2



SPRINT3



SPRINT4



VELOCITY CHART



Commitments



Work Completed



Column1

**BURNDOWN CHART:**



0



5



10



15



20



25



30



AUGUST



SEPTEMBER



OCTOBER



NOVEMBER



BURNDOWN CHART



Estimate Work



Remaining Time



Non

-

Working Days