**Sprint Delivery Plan**

Team ID: PNT2022TMID09649

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

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| --- | --- | --- | --- | --- | --- | --- |
| Sprint | Functional  Requirement (Epic) | User  Story  Number | User Story / Task | Story  Points | Priority | Team  Members |
| Sprint 1 | Planning Phase | USN- 1 | As a customer, I can understand the farmer's problems. Because country farmers face numerous challenges, such as detecting the actual disease. | 3 | Medium | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 1 | Planning Phase | USN- 2 | Data collection- include gathering photos of diseased leaves from various types. | 2 | Medium | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 1 | Planning Phase | USN- 3 | Image  Preprocessing - Preprocess the diseaseaffected photos by doing things like rotating them to grayscale and calling them. | 3 | Low | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 1 | Planning Phase | USN- 4 | Train and test the gathered dataset, as | 4 | Medium | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |

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|  |  |  | well as assess its accuracy. |  |  |  |
| Sprint 2 | Development Phase | USN- 5 | Model building -  Creating a CNN model for image segmentation | 5 | Low | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 2 | Development Phase | USN- 6 | Cnn model evaluation - Checking the accuracy and precision of the cnn model. | 3 | High | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 2 | Development Phase | USN- 7 | SVM  algorithm - The SVM  algorithm is  used to classify images and provides 95% accuracy | 5 | High | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 2 | Development Phase | USN- 8 | Create a database for each dataset class. | 3 | Medium | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 3 |  | USN- 9 | Creation of User Database for the user details | 2 | Low | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 3 |  | USN- 10 | Description Page - The description page  offers information on the predicting criteria as well as user guides. | 3 | Medium | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 3 |  | USN- 11 | Login Page - Login with the user's email address. | 2 | Low | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |

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| Sprint 3 |  | USN- 12 | Access via password. | 3 | Medium | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 4 | Deployment  Phase | USN- 13 | Dashboard and Input page creation - User profiles and prediction accuracy are included. We can feed the input images into the input page.. | 2 | Low | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 4 | Deployment  Phase | USN- 14 | Prediction page - Display the prediction depending on user input. | 4 | Low | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 4 | Deployment  Phase | USN- 15 | Model Load – creation of API using flask | 5 | High | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 4 | Deployment  Phase | USN- 16 | Using IBM cloud to deploy the application. | 5 | High | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 4 | Deployment  Phase | USN- 17 | User interface and backend API calls are connected | 5 | High | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 4 | Testing Phase | USN- 18 | Test that the application function works with good accuracy and low latency. | 5 | High | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |
| Sprint 4 | Testing Phase | USN- 19 | Testing the application as a user ensures that  all user interfaces are operational and  that the prediction accuracy is correct. | 5 | High | Nivetha. V  Srija. A  Subhiksha. R  Varshini. H |

**Project Tracker, Velocity & Burndown Chart:**

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| --- | --- | --- | --- | --- | --- | --- |
| 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 | 24 Oct 2022 | 08 Nov  2022 | 20 | 08 Nov  2022 |
| Sprint-2 | 20 | 6 Days | 31 Oct 2022 | 09 Nov  2022 | 20 | 09 Nov  2022 |
| Sprint-3 | 20 | 6 Days | 07 Nov  2022 | 12 Nov  2022 | 20 | 12 Nov  2022 |
| Sprint -4 | 20 | 6 Days | 14 Nov  2022 | 19 Nov  2022 | 20 | 19 Nov  2022 |

**Velocity:**

Sprint 1 average velocity: Average Velocity = 20 / 2 = 10 Sprint 2 average velocity: Average Velocity = 20 / 2 = 10 Sprint 3 average velocity:

Average Velocity = 20 / 1 = 20 Sprint 4 average velocity:

Average Velocity = 20 / 2 = 10

**Burndown Chart:**

