

Project Planning Phase

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

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|---------------|---|
| Date | 1 November 2022. |
| Team ID | PNT2022TMID31070 |
| Project Name | Fertilizer Recommendation System for Disease Prediction |
| Maximum Marks | 8 Marks |

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

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points (Total) | Priority | Team Members |
|----------|--|-------------------|---|----------------------|----------|---|
| Sprint-1 | Model Creation and Training (Fruits) | | Create a model which can classify diseased fruit plants from given images. I also need to test the model and deploy it on IBM Cloud | 8 | High | Madheshwaran SK Justin Jegan J Selvakumar K Sathish M |
| | Model Creation and Training (Vegetables) | | Create a model which can classify diseased vegetable plants from given images | 2 | High | Madheshwaran SK Justin Jegan J Selvakumar K Sathish M. |

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points (Total) | Priority | Team Members |
|---------------|--|--------------------------|---|-----------------------------|-----------------|---|
| Sprint-2 | Model Creation and Training (Vegetables) | | Create a model which can classify diseased vegetable plants from given images and train on IBM Cloud | 6 | High | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |
| | Registration | USN-1 | As a user, I can register by entering my email, password, and confirming my password or via OAuth API | 3 | Medium | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |
| | Upload page | USN-2 | As a user, I will be redirected to a page where I can upload my pictures of crops | 4 | High | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |
| | Suggestion results | USN-3 | As a user, I can view the results and then obtain the suggestions provided by the ML model | 4 | High | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |
| | Base Flask App | | A base Flask web app must be created as an interface for the ML model | 2 | High | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |
| Sprint-3 | Login | USN-4 | As a user/admin/shopkeeper, I can log into the application by entering email & password | 2 | High | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |
| | User Dashboard | USN-5 | As a user, I can view the previous results and history | 3 | Medium | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |
| | Integration | | Integrate Flask, CNN model with Cloudant DB | 5 | Medium | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |

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|--|------------------|--|-------------------------------------|---|-----|--|
| | Containerization | | Containerize Flask app using Docker | 2 | Low | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |
|--|------------------|--|-------------------------------------|---|-----|--|

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|----------|------------------------|-------|---|---|--------|--|
| | | | | | | |
| Sprint-4 | Dashboard (Admin) | USN-6 | As an admin, I can view other user details and uploads for other purposes | 2 | Medium | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |
| | Dashboard (Shopkeeper) | USN-7 | As a shopkeeper, I can enter fertilizer products and then update the details if any | 2 | Low | MadheshWaran SK , Justin Jegan J, Selvakumar K, Sathish M. |
| | Containerization | | Create and deploy Helm charts using Docker Image made before | 2 | Low | MadheshWaran SK, Justin Jegan J, Selvakumar K, Sathish M. |

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

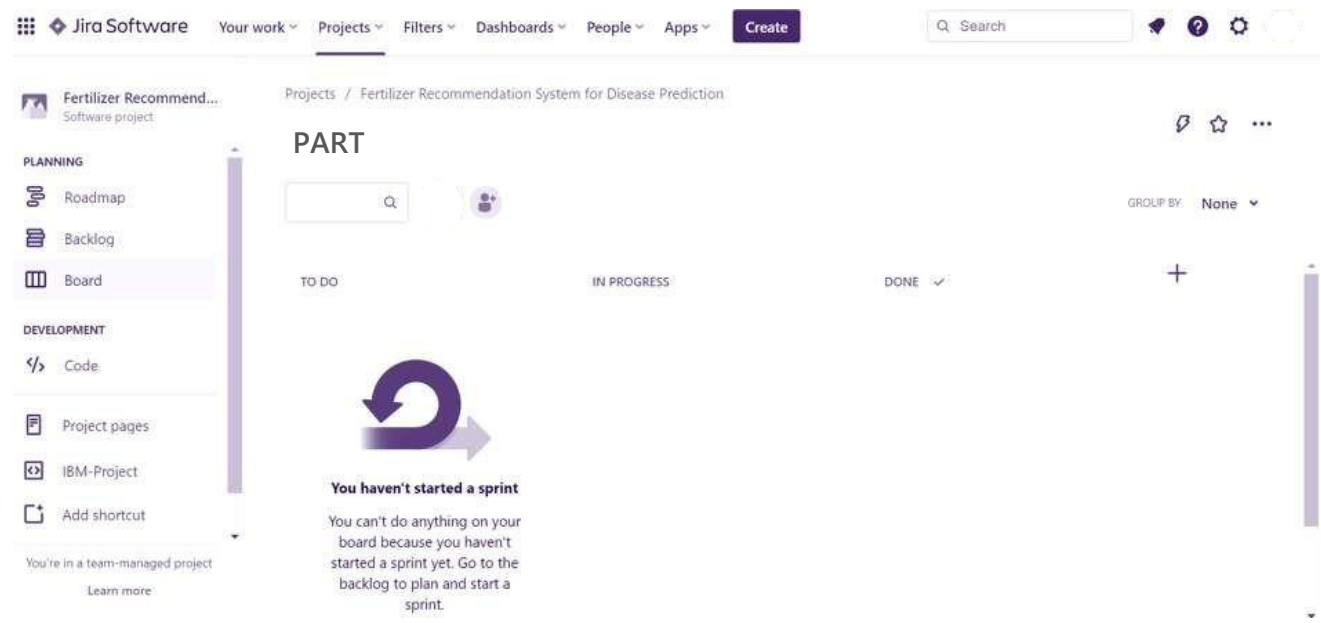
| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|----------|--------------------|----------|-------------------|---------------------------|---|------------------------------|
| Sprint-1 | 10 | 6 Days | 26 Oct 2022 | 1 Nov 2022 | 10 | 1 Nov 2022 |
| Sprint-2 | 15 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 15 | 06 Nov 2022 |
| Sprint-3 | 15 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 15 | 13 Nov 2022 |
| Sprint-4 | 12 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 10 | 20 Nov 2022 |

NOTE: Burndown charts, Velocity to be updated dynamically after end of sprints

Roadmap:



Screenshots:



Fertilizer Recommendation System for Disease Prediction
Software project

PLANNING

Roadmap

Backlog

Board

DEVELOPMENT

Code

Project pages

IBM-Project

Add shortcut

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Backlog

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Insights

Sprint 1 24 Oct – 29 Oct (6 issues)

- ☒ HIVE-1 Collect Dataset (IBM, Kaggle)
- ☒ HIVE-2 Preprocess Images (Fruits) MODEL CREATION AND TRAINING...
- ☐ HIVE-3 Create CNN model (Fruits) MODEL CREATION AND TRAINING...
- ☐ HIVE-4 Train and test model-1 in IBM Watson MODEL CREATION AND TRAINING...
- ☒ HIVE-5 Tune parameters MODEL CREATION AND TRAINING...
- ☐ HIVE-6 Create CNN model (Vegetables) MODEL CREATION AND TRAINING...

+ Create issue

10 0 0 Start sprint

- 1 TO DO
- 1 TO DO
- 2 TO DO
- 3 TO DO
- 1 TO DO
- 2 TO DO