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

| Date | 25 October 2022 |
|---|---|
| Team ID | PNT2022TMID04922 |
| 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 | Bheena Dhevi , Bama Devi, Harshini, Hemadharshini |
| | Model Creation and Training (Vegetables) | | Create a model which can classify diseased vegetable plants from given images | 2 | High | Bheena Dhevi , Bama Devi, Harshini, Hemadharshini |

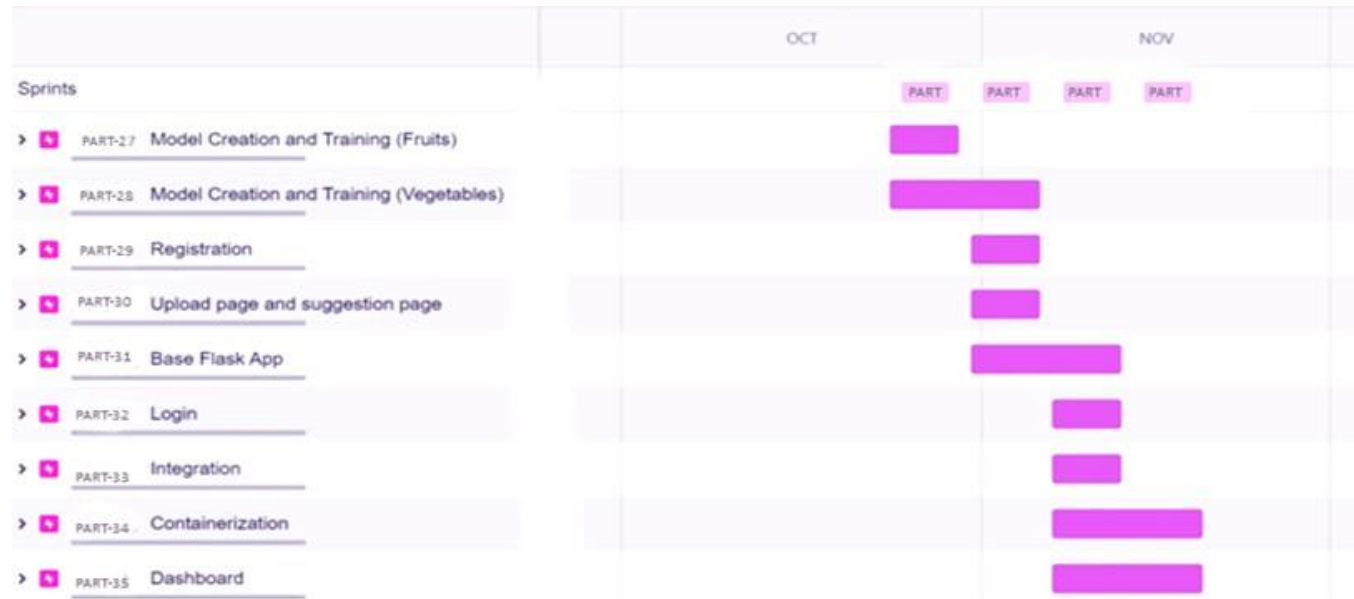| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points (Total) | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint-2 | Model Creation and Training (Vegetables) | | Create a model which can classify diseased vegetable plants from given images and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

| Sprint-4 | Dashboard (Admin) | USN-6 | As an admin, I can view other user details and uploads for other purposes | 2 | Medium | Bheena Dhevi , Bama Devi, Harshini, Hemadharshini |
|---|---|---|---|---|---|---|
| | Dashboard (Shopkeeper) | USN-7 | As a shopkeeper, I can enter fertilizer products and then update the details if any | 2 | Low | Bheena Dhevi , Bama Devi, Harshini, Hemadharshini |
| | Containerization | | Create and deploy Helm charts using Docker Image made before | 2 | Low | Bheena Dhevi , Bama Devi, Harshini, Hemadharshini |

**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 | 24 Oct 2022 | 29 Oct 2022 | 10 | 30 Oct 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:**



| Sprints | OCT | | NOV | | |
|---|---|---|---|---|---|
| | | PART | PART | PART | PART |
| PART-27 Model Creation and Training (Fruits) | ▮ | | | | |
| PART-28 Model Creation and Training (Vegetables) | ▮▮▮ | | | | |
| PART-29 Registration | | ▮ | | | |
| PART-30 Upload page and suggestion page | | ▮ | | | |
| PART-31 Base Flask App | | ▮▮ | | | |
| PART-32 Login | | | ▮ | | |
| PART-33 Integration | | | ▮ | | |
| PART-34 Containerization | | | ▮▮▮ | | |
| PART-35 Dashboard | | | ▮▮▮ | | |

**Screenshots:**

Projects  /  Fertilizer Recommendation System for Disease Prediction

# Backlog

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**Fertilizer Recommend...**
Software project

**PLANNING**

- Roadmap
- Backlog
- Board

**DEVELOPMENT**

- </> Code

- Project pages
- <> IBM-Project
- Add shortcut

You're in a team-managed project

Learn more

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Q          Epic ∨      Type ∨                                      📈 Insights

∨      Sprint 1  24 Oct – 29 Oct  (6 issues)                    10  0  0  **Start sprint**  ···

☑ HIVE-1  Collect Dataset (IBM, Kaggle)                                   1   TO DO ∨

☑ HIVE-2  Preprocess Images (Fruits)    **MODEL CREATION AND TRAINING...**     1   TO DO ∨

🔖 HIVE-3  Create CNN model (Fruits)    **MODEL CREATION AND TRAINING...**     2   TO DO ∨

🔖 HIVE-4  Train and test model-1 in IBM Watson    **MODEL CREATION AND TRAINING...**     3   TO DO ∨

☑ HIVE-5  Tune parameters    **MODEL CREATION AND TRAINING...**     1   TO DO ∨

🔖 HIVE-6  Create CNN model (Vegetables)    **MODEL CREATION AND TRAINING...**     2   TO DO ∨

+ Create issue