

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

| <b>Sprint</b> | <b>Functional Requirement (Epic)</b>     | <b>User Story Number</b> | <b>User Story / Task</b>  | <b>Story Points (Total)</b> | <b>Priority</b> | <b>Team Members</b>                |
|---------------|--|--------------------------|---|-----------------------------|-----------------|------------------------------------|
| 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            | DEEPIKA, ANUPRIYAA, ARAVIND, ASWIN |
|               | Model Creation and Training (Vegetables) |                          | Create a model which can classify diseased vegetable plants from given images   | 2                           | High            | DEEPIKA, ANUPRIYAA, ARAVIND, ASWIN |

| <b>Sprint</b> | <b>Functional Requirement (Epic)</b>     | <b>User Story Number</b> | <b>User Story / Task</b>  | <b>Story Points (Total)</b> | <b>Priority</b> | <b>Team Members</b>             |
|---------------|--|--------------------------|---|-----------------------------|-----------------|---------------------------------|
| 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            | DEEPIKA,ANUPRIYAA,ARAVIND,ASWIN |
|               | Registration                             | USN-1                    | As a user, I can register by entering my email, password, and confirming my password or via OAuth API | 3                           | Medium          | DEEPIKA,ANUPRIYAA,ARAVIND,ASWIN |
|               | Upload page                              | USN-2                    | As a user, I will be redirected to a page where I can upload my pictures of crops                     | 4                           | High            | DEEPIKA,ANUPRIYAA,ARAVIND,ASWIN |
|               | Suggestion results                       | USN-3                    | As a user, I can view the results and then obtain the suggestions provided by the ML model            | 4                           | High            | DEEPIKA,ANUPRIYAA,ARAVIND,ASWIN |
|               | Base Flask App                           |                          | A base Flask web app must be created as an interface for the ML model                                 | 2                           | High            | DEEPIKA,ANUPRIYAA,ARAVIND,ASWIN |
| Sprint-3      | Login                                    | USN-4                    | As a user/admin/shopkeeper, I can log into the application by entering email & password               | 2                           | High            | DEEPIKA,ANUPRIYAA,ARAVIND,ASWIN |
|               | User Dashboard                           | USN-5                    | As a user, I can view the previous results and history  | 3                           | Medium          | DEEPIKA,ANUPRIYAA,ARAVIND,ASWIN |
|               | Integration                              |                          | Integrate Flask, CNN model with Cloudant DB   | 5                           | Medium          | DEEPIKA,ANUPRIYAA,ARAVIND,ASWIN |
|               | Containerization                         |                          | Containerize Flask app using Docker   | 2                           | Low             | DEEPIKA,ANUPRIYAA,ARAVIND,ASWIN |

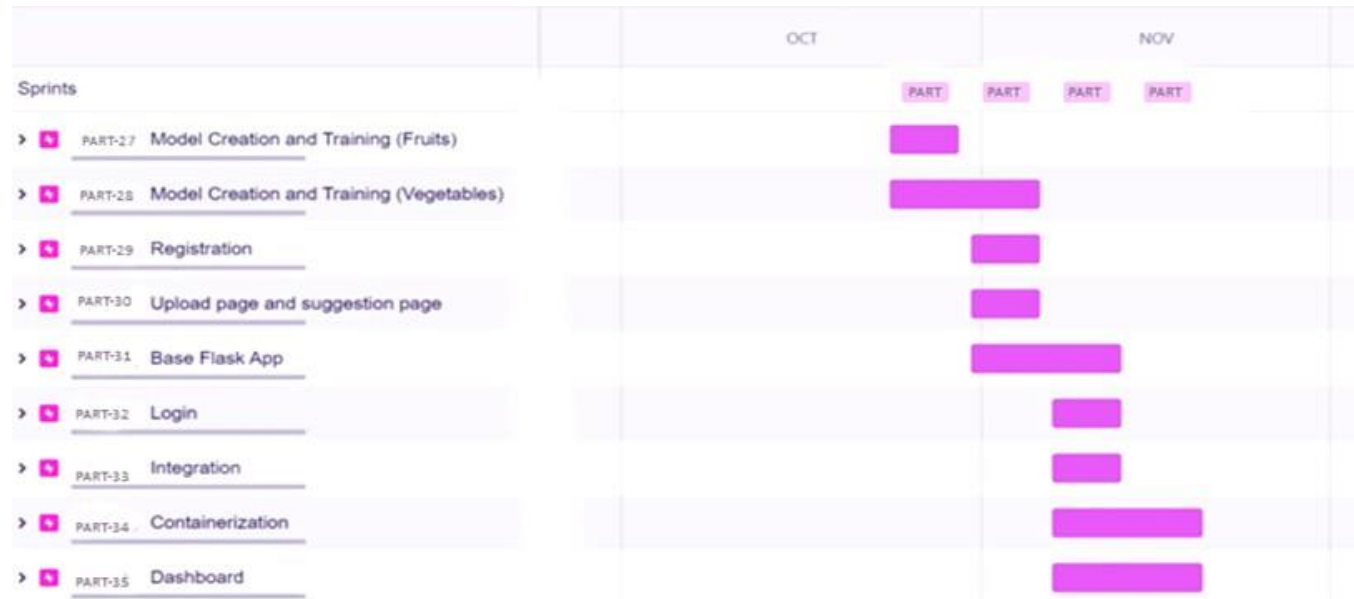
|          |                        |       |   |   |        |                                 |
|----------|------------------------|-------|---|---|--------|---------------------------------|
|          |                        |       |   |   |        |                                 |
| Sprint-4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

#### 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:



## Screenshots:

**Jira Software** Your work Projects Filters Dashboards People Apps **Create**

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**Fertilizer Recommendation System for Disease Prediction**  
Software project

**PLANNING**

- Roadmap
- Backlog
- Board**

**DEVELOPMENT**

- Code
- Project pages
- IBM-Project
- Add shortcut

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**PART Board**

GROUP BY: None

TO DO IN PROGRESS DONE

**You haven't started a sprint**

You can't do anything on your board because you haven't started a sprint yet. Go to the backlog to plan and start a sprint.



Fertilizer Recommend...  
Software project

## PLANNING



Roadmap



Backlog



Board

## DEVELOPMENT



Code



Project pages



IBM-Project



Add shortcut

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## Backlog



Epic ▾

Type ▾

Insights

## ▼ Sprint 1 24 Oct – 29 Oct (6 issues)

10 0 0

Start sprint



- ☒ 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

1 TO DO ▾



1 TO DO ▾



2 TO DO ▾



3 TO DO ▾



1 TO DO ▾



2 TO DO ▾

