**Project Planning Phase**

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| --- | --- |
| Date | 2-11-2022 |
| Team ID | PNT2022TMID38223 |
| Project Name | Fertilizers Recommendation System for Disease Prediction |
| Maximum Marks | 8mark |

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

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date** | **Story Points Completed (as or Planned End Date)** | **Sprint Release Date (Actual)** |
| Sprint-1 | 20 | 5 | 26-10-22 | 30-10-22 | 10 | 30-10-22 |
| Sprint-2 | 20 | 4 | 01-11-22 | 04-11-22 | 15 | 04-11-22 |
| Sprint-3 | 20 | 5 | 05-11-22 | 09-11-22 | 15 | 09-11-22 |
| Sprint-4 | 20 | 4 | 10-11-22 | 13-11-22 | 10 | 13-11-22 |

Planning Process

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| --- | --- | --- | --- | --- |
| **Planning** | **Start Date** | **End Date** | **Team Member** | **Process** |
| Prerequisites | 24-10-22 | 24-10-22 | G. Pavithra | Download the Anaconda Navigator  Install the packages (NumPy, pandas, keras, tensor flow) |
| Data Collection | 25-10-22 | 25-10-22 | G. Pavithra  K. Chithra  N. Vishali  M. Shylaja | Download the Dataset |
| Image Processing | 26-10-22 | 31-10-22 | G. Pavithra  K. Chithra  N. Vishali  M. Shylaja | Process the Image  Apply the Image Data Generator Functionality to the Train set and Test set |
| Model Building For Fruits Disease Prediction | 01-11-22 | 05-11-22 | G. Pavithra  K. Chithra  N. Vishali  M. Shylaja | Import the Libraries  Initializing the model  Add CNN Layers  Add Dense Layers  Train and save the model |
| Model Building For Vegetables Disease Prediction | 06-11-22 | 10-11-22 | G. Pavithra  K. Chithra  N. Vishali  M. Shylaja | Train and save the model |
| Test Both The Models | 11-11-22 | 14-11-22 | G. Pavithra  K. Chithra | Test the model |
| Train The Model On IBM | 13-11-22 | 15-11-22 | G. Pavithra  K. Chithra  N. Vishali  M. Shylaja | Register for IBM Cloud  Train Model on IBM |
| Application Building | 24-10-22 | 15-11-22 | G. Pavithra  K. Chithra  N. Vishali  M. Shylaja | Built Python Code  Built HTML Page  Run the Code |

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

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| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional Requirements (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 | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | Model Creation and Training (Vegetables) |  | Create a model which can classify diseased vegetables plants from given images | 2 | High | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
| Sprint-2 | Model Creation and Training (Vegetables) |  | Create a model which can classify diseased vegetables plants from given images and train on IBM Cloud | 6 | High | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | Registration | USN-1 | As a user, I can register by entering my email, password and confirming my password or via O Auth API | 3 | Medium | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | Upload page | USN-1 | As a user, I will be redirected to a page where I can upload my pictures of crops | 4 | High | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | Suggestion results | USN-3 | As a user, I can view the results and then obtain the suggestions provided by the ML model | 4 | High | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | Base Flask App |  | A base Flask web app must be created as an interface for the ML model | 2 | High | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
| Sprint-3 | Login | USN-4 | As a user/admin/shopkeeper, I can log into the application by entering email & password | 2 | High | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | User Dashboard | USN-5 | As a user, I can view the previous results and history | 3 | Medium | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | Integration |  | Integrate Flask, CNN model with Cloud ant DB | 5 | Medium | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | Containerization |  | Containerize Flask app using Docker | 2 | Low | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
| Sprint-4 | Dashboard (Admin) | USN-6 | As a admin, I can view other user details and uploads for other purposes | 2 | Medium | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | Dashboard (Shopkeeper) | USN-7 | As a shopkeeper, I can enter fertilizer products and then update the details if any | 2 | Low | G. Pavithra, K. Chithra, N. Vishali, M. Shylaja |
|  | Containerization |  | Create and deploy Helm using Docker Image made before | 2 | Low | G. Pavithra, K. Chithra,  N. Vishali, M. Shylaja |