**Project Planning Phase**

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

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| Date | 18 October 2022 |
| Team ID | PNT2022TMID27968 |
| Project Name | Estimation of crop yield using Data Analytics |
| Maximum Marks | 8 Marks |

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

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
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| Sprint-1 | Data Collection | USN-1 | As a user, I can collect the data from various resources with different agricultural datasets. | 3 | Low | Bhavatharani D  Danushri B |
| Sprint-1 | Data Preprocessing | USN-2 | As a user, I can load the dataset, handling the missing data, scaling and split data into train and test. | 6 | Medium | Bhavatharani D  Danushri B |
| Sprint-2 | Model Building | USN-3 | As a user, I will get an application with ML model which provides high accuracy of recognized data obtained from the agricultural datasets. | 10 | High | Abharnah R  Mahimaa devi.M  Danushri.B |
| Sprint-2 | Compiling the model | USN-4 | With both the training data defined and model defined, it's time to configure the learning process. | 7 | Medium | Abharnah R  Mahimaa devi.M |
| Sprint-2 | Train & test the model | USN-5 | As a user, let us train our model with our predicted dataset. | 6 | Medium | Bhavatharani D  Danushri B |
| Sprint-2 | Save the model | USN-6 | As a user, the model is saved & integrated with a web application in order to predict something. | 2 | Low | Mahimaa devi.M  Bhavatharani D |
| Sprint-3 |  | USN-7 | As a user, I can know the details of the fundamental usage of the application. | 2 | Low | Danushri B  Bhavatharani D |
| Sprint-3 |  | USN-8 | As a user, I can see the predicted / agricultural datasets from the application. | 5 | Medium | Abharnah R  Danushri B |
| Sprint-4 | Train the model on IBM | USN-9 | As a user, I train the model on IBM and regression model with scoring end point. | 10 | High | Abharnah R  Mahimaa devi.M  Danushri.B |
| Sprint-4 | Cloud Deployment | USN-10 | As a user, I can access the web application and make the use of the product from anywhere. | 10 | High | Abharnah R  Mahimaa devi.M  Bhavatharani D |