**Project Planning Phase**

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **07.11.2022** | | |
| **Team id** |  | PNT2022TMID23645 |  |
|  |
| **Project Name** | **AI-Powered nutrition analyser for fitness enthusiastics** | | |
| **Maximum marks** | **8 marks** | | |

**Product Backlog, Sprint Schedule, and Estimation:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sprint** | **Functional**  **Requirement**  **(Epic)** | **User**  **Story**  **Number** | **User Story Task** | **Story**  **Points** | **Priority** | **Team member** |
| Sprint 1 | Data collection | USN-1 | Dataset - Collecting images of food items apples , banana, orange, pineapple, watermelon for analysis | 5 | high | Iswarya.C |
| Sprint 1 | Image  Processing | USN-2 | Image data augmentation - Increasing the amount of data by generating new data points from existing data | 4 | medium | Nila.V |
| Sprint 1 | USN-3 | Image Data Generator Class - Used for getting the input of the original data | 4 | medium | Aarthi.R |
| Sprint 1 | USN-4 | Applying image data generator functionality to train set and test set | 4 | medium | V.Abarna |
| Sprint 2 | Modeling Phase | USN-5 | Defining the model architecture - Building the model using deep learning approach and adding CNN  layers | 4 | medium | Iswarya.C |
| Sprint 2 |  | USN-6 | Training , saving, testing and predicting the model | 3 | low | V.Nila |
| Sprint 2 | Development  Phase | USN-7 | Login and registration page creation - User can register and login through gmail with Id and password | 4 | medium | R.Aarthi |

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| **Sprint** | **Total**  **Story**  **Point** | **Duration** | **Sprint**  **Start**  **Date** | **Sprint End**  **Date** | **Story**  **Points** **Complet**  **ed (as on** **Planned**  **End Date)** | **Sprint**  **Release**  **Date**  **(Actual)** |
| Sprint 1 | 20 | 6 days | 24 Oct  2022 | 29 Oct  2022 | 20 | 05.11.2022 |

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| Sprint 3 | Development  Phase | USN-8 | User Input Page Creation - It is for the user to feed the input images | 5 | high | Iswarya.C |
| Sprint 3 | USN-9 | Creation of about us , feedback and rating page – It shows application history and feedback page to users | 4 | medium | Nila.V |
| Sprint 3 | USN-10 | Building the python code and importing the flask module into the Project | 2 | low | Aarthi.R |
| Sprint 4 | Development  Phase | USN-11 | Create the Flask application and loading the model | 5 | high | Abarna.V |
| Sprint 4 | Deployment  Phase | USN-12 | Cloud deployment – Deployment of application by using IBM cloud | 4 | medium | Iswarya.C |
| Sprint 4 | Testing Phase | USN-13 | Functional testing – Checking usability and accessibility | 4 | medium | Nila.V |
| Sprint 4 | USN-14 | Non Functional testing – Checking scalability and performance of the application | 2 | low | Aarthi.R |

# Project Tracker, Velocity & Burn down Chart: (4 Marks)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint 2 | 20 | 6 days | 31 Oct  2022 | 05 Nov  2022 | 20 | 05.11.2022 |
| Sprint 3 | 20 | 6 days | 07 Nov  2022 | 12 Nov  2022 | 20 | 11.11.2022 |
| Sprint 4 | 20 | 6 days | 14 Nov  2022 | 19 Nov  2022 | 20 | 15.11.2022 |

**velocity:**

AV=sprint duration/velocity

=20/10

=2