**Project Planning Phase**

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

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| --- | --- |
| Date | 18 October 2022 |
| Team ID | PNT2022TMID34124 |
| Project Name | AI-powered Nutrition Analyzer for Fitness Enthusiasts |
| Maximum Marks | 8 marks |

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

| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| --- | --- | --- | --- | --- | --- | --- |
| Sprint-1 | Data Collection | USN-1 | Dataset - Collecting images of food items | 8 | High | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-1 |  | USN-2 | Image data augmentation – Provide new information about the materials | 4 | medium | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-1 | Image Preprocessing | USN-3 | Image Data Generator Class - Used to get the input . | 4 | medium | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-1 |  | USN-4 | Applying algorithm to trainset and testset | 4 | Medium | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-2 | Modeling Phase | USN-5 | Defining the model architecture - Building the model using CNN layers | 4 | High | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-2 | USN -6 | Training , saving, testing and running the model | 5 | High | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-2 | USN- 7 | Database creation for the input classes | 4 | High | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint- 2 |  | USN- 8 | User database creation | 3 | Medium | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-2 |  | USN- 9 | Home page creation - It shows options of the app.Displays the app homepage | 2 | Low | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-2 | Development phase | USN- 10 | Login and registration page creation -The User can register and login with gmail and password | 2 | Low | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-3 |  | USN- 11 | Dashboard creation – Dashboard contains the information of user profile | 2 | Low | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-3 |  | USN- 12 | User Input Page Creation - It is for the user to feed the input images | 4 | medium | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-3 |  | USN- 13 | Analysis and prediction page creation - It shows the prediction of input | 4 | Medium | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-3 |  | USN- 14 | feedback and rating page – It shows the feedback to the users | 4 | medium | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-3 |  | USN- 15 | Building the python code and importing the module into the  Project | 6 | high | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-4 | Application Phase | USN- 16 | Creating application and loading the model | 5 | high | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-4 |  | USN- 17 | API integration - Connecting front end and back end and perform routing and run the application | 5 | high | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-4 | Deployment Phase | USN-18 | Cloud deployment – Deployment of application by using IBM cloud | 4 | high | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| Sprint-4 | Testing Phase | USN-19 | Functional testing – Checking accessibility and usability of the app | 3 | medium | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |
| USN-20 | Non Functional testing – Checking scalability and performance of the application | 3 | medium | Candida A  Chenpaka Priyadarshini S  Gobisha M  Jaya Tharshini G |

**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 | 08 | 5 Days | 31 Oct 2022 | 04 nov 2022 | 20 | 4 nov 2022 |
| Sprint-2 | 15 | 4 Days | 4 Nov 2022 | 07 Nov 2022 | 20 | 7 nov 2022 |
| Sprint-3 | 15 | 5 Days | 08 Nov 2022 | 12 Nov 2022 | 20 | 12 nov 2022 |
| Sprint-4 | 25 | 5 Days | 13 Nov 2022 | 17 Nov 2022 | 20 | 17 nov 2022 |

**Velocity:**

Average Velocity= 12/4 =3