Project Planning Phase

**Project Planning (Product Backlog, Sprint Planning, Stories, Story Points)**

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| Date | 02 November 2022 |
| Team ID | PNT2022TMID27357 |
| Project Name | AI-powered Nutrition Analyzer for Fitness Enthusiasts |
| Maximum Marks | 8 Marks |

Product Backlog, Sprint Schedule, and Estimation

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| **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 like apple, orange, grapes, banana for analysis | 4 | High | Nisha Rasaili |
| Sprint-1 | Image Preprocessing | USN-2 | Image data augmentation - Increasing the amount of data by generating new data points from existing data | 3 | Medium | Malini R |
| Sprint-1 | USN-3 | Image Data Generator Class - Used for getting the input of the original data | 3 | Medium | Mathangi Sriraman |
| Sprint-1 | USN-4 | Applying image data generator functionality to train-set and test-set | 5 | Medium | Sriman Narayanan P G |
| Sprint-1 | Modeling Phase | USN-5 | Defining the model architecture - Building the model using deep learning approach and adding CNN layers | 5 | High | Malini R |
| Sprint-2 | USN-6 | Training , saving, testing and predicting the model | 5 | High | Sriman Narayanan P G |
| Sprint-2 | USN-7 | Database creation for the input classes | 3 | High | Mathangi Sriraman |
| Sprint-2 | Development Phase | USN-8 | Home page creation - It shows options of the application | 4 | Medium | Nisha Rasaili |
| Sprint-2 | USN-9 | User database creation - It contains the details of users | 3 | Low | Sriman Narayanan P G |
| Sprint-2 | USN-10 | Login and registration page creation - User can register and login through g mail with Id and password | 5 | Low | Mathangi Sriraman |
| Sprint-3 | USN-11 | Dashboard creation - Dashboard contains the information of user profile and features of the application | 3 | Low | Nisha Rasaili |

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| **Sprint** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Story Points** | **Priority** | **Team Members** |
| Sprint-3 | Development Phase | USN-12 | User Input Page Creation - It is for the user to feed the input images | 4 | Low | Sriman Narayanan P G |
| Sprint-3 | USN-13 | Analysis and prediction page creation - It shows the prediction of given user input | 4 | Medium | Malini R |
| Sprint-3 | USN-14 | Creation of about us, feedback and rating page – It shows application history and feedback page to users | 4 | Medium | Nisha Rasaili |
| Sprint-3 | Application Phase | USN-15 | Building the python code and importing the flask module into the project | 5 | Medium | Malini R |
| Sprint-4 | USN-16 | Create the Flask application and loading the model | 4 | High | Mathangi Sriraman |
| Sprint-4 | USN-17 | API integration - Connecting front end and back end and perform routing and run the application | 4 | High | Sriman Narayanan P G |
| Sprint-4 | Deployment Phase | USN-18 | Cloud deployment – Deployment of application by using IBM cloud | 4 | High | Malini R |
| Sprint-4 | Testing Phase | USN-19 | Functional testing – Checking usability and accessibility | 4 | High | Mathangi Sriraman |
| Sprint-4 | USN-20 | Non Functional testing – Checking scalability and performance of the application | 4 | High | Nisha Rasaili |

Project Tracker, Velocity & Burn down Chart:

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| **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 | 20 | 5 Days | 17 Oct 2022 | 21 Oct 2022 | 20 | 21 Oct 2022 |
| Sprint-2 | 20 | 5 Days | 22 Oct 2022 | 26 Oct 2022 | 20 | 26 Oct 2022 |
| Sprint-3 | 20 | 5 Days | 27 Oct 2022 | 31 Oct 2022 | 20 | 31 Oct 2022 |
| Sprint-4 | 20 | 5 Days | 01 Nov 2022 | 05 Nov 2022 | 20 | 05 Nov 2022 |

Velocity:

Average Velocity = 20/10=2

Burn-down Chart:

