**PROJECT PLANNING PHASE**

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

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|---|---|
| Date | 10 November 2022 |
| Team ID | PNT2022TMID29412 |
| Project Name | CAD - Nutrition Assistant Application |
| Maximum Mark | 8 marks |

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

| sprint | Functional Requirement | User Story Number | User story/Task | Story Points | Priority | Team Members |
|---|---|---|---|---|---|---|
| Sprint 1 | Create flask project | USN-1 | We installed flask and created sample flask project. | 3 | Medium | S. Aiswaryaroy T. Aishwarya |
| Sprint 1 | Create IBM Cloud account | USN-2 | We sign up for an IBM cloud account. | 7 | High | T. Aishwarya S. Aiswaryaroy S. Dheekshana S. Amirthadevi M. Gayathri |
| Sprint 1 | Install IBM cloud CLI and Docker CLI installation | USN-3 | We installed IBM cloud CLI and installed Docker CLI | 5 | High | S. Dheekshana S. Amirthadevi |
| Sprint 1 | Create an account in send grid and account in nutrition API | USN-4 | We created account in send grid and in nutrition API | 5 | High | S. Aiswaryaroy M. Gayathri |

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| Sprint 2 | Create UI to interact with application | USN-5 | Create Registration page, login page, Upload image page, prediction image page for food items and view history of items | 8 | High | S. Aiswaryaroy T. Aishwarya |
| Sprint 2 | Create IBM DB2 and connect with python | USN-6 | Create the IBM DB2 service in IBM cloud and connect the python code with DB. | 6 | High | S. Dheekshana S. Amirthadevi |
| Sprint 2 | Integrate Nutrition API | USN-7 | Integrate the nutrition API to the flask with API call. | 6 | High | S. Aiswaryaroy S. Dheekshana M. Gayathri |
| Sprint 3 | Send grid integration with python code | USN-8 | To send emails from the application we need to integrate the send grid service. | 20 | High | S. Aiswaryaroy S. Dheekshana T. Aishwarya S. Amirthadevi M. Gayathri |
| Sprint 4 | Containerize the app | USN-9 | We created the Docker image for flask app | 9 | High | S. Dheekshana T. Aishwarya |
| Sprint 4 | Upload image to IBM container registry | USN-10 | We uploaded the image IBM container registry | 6 | High | S. Aishwaryaroy S. Amirthadevi |

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| Sprint 4 | Deploy in kubernetes | USN-11 | The uploaded on IBM container registry deployed the image to IBM Kubernetes Cluster. | 5 | Medium | S. Aiswaryaroy T. Aishwarya S. Dheekshana |

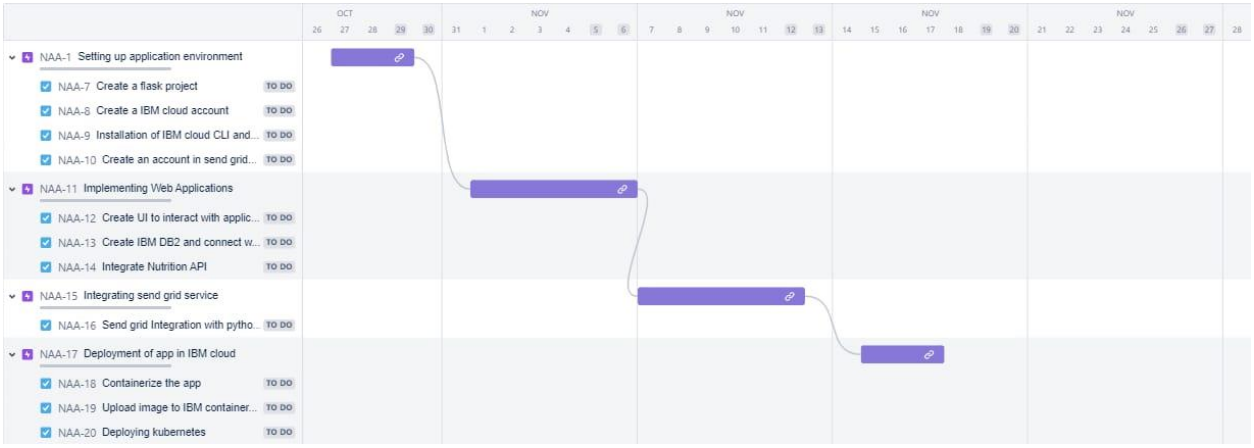
**Project Tracker, Velocity & Burn down Chart:**

| **Sprint** | **Total Story Points** | **Duration** | **Sprint Start Date** | **Sprint End Date** | **Story Points Completed (as on planned End Date)** | **Sprint Release Date ( Actual)** |
|---|---|---|---|---|---|---|
| Sprint 1 | 20 | 6 days | 24 Oct 2022 | 29 Oct 2022 | 20 | 7 Nov 2022 |
| Sprint 2 | 20 | 6 days | 31 Oct 2022 | 05 Nov 2022 | 20 | 10 Nov 2022 |
| Sprint **3** | 20 | 6 days | 7 Nov 2022 | 12 Nov 2022 | 20 | 15 Nov 2022 |
| Sprint 4 | 20 | 6 days | 19 Nov 2022 | 19 Nov 2022 | 20 | 17 Nov 2022 |

**Velocity:**

Imagine we have a 10 days sprint duration, and the velocity of team is 20 (points per sprint). Lets calculate the team's average velocity (AV) per iteration unit (Story points per day).

**AV = Sprint Duration / Velocity = 20 / 10 = 2**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26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
NAA-1 Setting up application environment
NAA-7 Create a flask project TO DO
NAA-8 Create a IBM cloud account TO DO
NAA-9 Installation of IBM cloud CLI and... TO DO
NAA-10 Create an account in send grid... TO DO
NAA-11 Implementing Web Applications
NAA-12 Create UI to interact with applic... TO DO
NAA-13 Create IBM DB2 and connect w... TO DO
NAA-14 Integrate Nutrition API TO DO
NAA-15 Integrating send grid service
NAA-16 Send grid Integration with pytho... TO DO
NAA-17 Deployment of app in IBM cloud
NAA-18 Containerize the app TO DO
NAA-19 Upload image to IBM container... TO DO
NAA-20 Deploying kubernetes TO DO