

PROJECT PLANNING PHASE

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

Date	10 November 2022
Team ID	PNT2022TMID29541
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	B.Sneha R.Sevanthi S.Kiruthiga G.Uma E.Salma
Sprint 1	Create IBM Cloud account	USN-2	We sign up for an IBM cloud account.	7	High	B.Sneha G.Uma E.Salma R.Sevanthi S.Kiruthiga
Sprint 1	Install IBM cloud CLI and Docker CLI installation	USN-3	We installed IBM cloud CLI and installed Docker CLI	5	High	B.Sneha R.Sevanthi S.Kiruthiga E.Salma G.Uma
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	B.Sneha R.Sevanthi S.Kiruthiga G.Uma E.Salma

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	B.Sneha R.Sevanthi S.Kiruthiga G.Uma E.Salma
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	B.Sneha R.Sevanthi S.Kiruthiga G.Uma E.Salma
Sprint 2	Integrate Nutrition API	USN-7	Integrate the nutrition API to the flask with API call.	6	High	B.Sneha R.Sevanthi S.Kiruthiga G.Uma E.Salma
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	B.Sneha R.Sevanthi S.Kiruthiga G.Uma E.Salma
Sprint 4	Containerize the app	USN-9	We created the Docker image for flask app	9	High	B.Sneha R.Sevanthi S.Kiruthiga G.Uma E.Salma
Sprint 4	Upload image to IBM container registry	USN-10	We uploaded the image IBM container registry	6	High	B.Sneha R.Sevanthi S.Kiruthiga G.Uma E.Salma

Sprint 4	Deploy in kubernetes	USN-11	The uploaded on IBM container registry deployed the image to IBM Kubernetes Cluster.	5	Medium	B.Sneha R.Sevanthi S.Kiruthiga G.Uma E.Salma
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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).

$$AV = \text{Sprint Duration} / \text{Velocity} = 20 / 10 = 2$$

