

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

Date	31 October 2022
Team ID	PNT2022TMID53094
Project Name	Digital Naturalist – AI Enabled Tool for Biodiversity Researchers
Maximum Marks	8 Marks

**Product Backlog, Sprint Schedule, and Estimation: (4 Marks)**

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Modelling Phase	USN-1	Data Acquisition – Collecting and digitalizing data for analysis	3	Medium	Pravin
Sprint-1		USN-2	Data Understanding – Accessing and exploring the data to get useful insights from them	4	High	Samyuktha
Sprint-1		USN-3	Feature engineering – Data Manipulation	2	Medium	Vaishali
Sprint-1		USN-4	Data Augmentation – Increasing the amount of data to avoid overfitting	2	Medium	Nuzair
Sprint-1		USN-5	Model building – Building the model using transfer learning approach	5	High	Samyuktha
Sprint-2		USN-6	Model evaluation and saving - Evaluating the model to check the accuracy and precision	3	High	Vaishali
Sprint-3		USN-7	Database creation for classes	2	Medium	Nuzair
Sprint-2	Development phase	USN-8	User database creation – contains the details of user	1	Low	Pravin
Sprint-2		USN-9	Home page creation – shows features of our application	1	Low	Vaishali
Sprint-2		USN-10	Login and register page creation - Login through email and password, login through Gmail.	1	Low	Nuzair

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-11	Authentication – OTP verification and SSO	2	Medium	Pravin
Sprint-3		USN-12	Dashboard creation – User profile and features	1	Low	Samyuktha
Sprint-3		USN-13	Setting up facilities for user to feed input	2	Medium	Pravin
Sprint-3		USN-14	Prediction page creation – shows prediction for user input	4	Medium	Vaishali
Sprint-4		USN-15	Model loading - API creation using flask.	5	High	Nuzair
Sprint-4		USN-16	Admin panel creation	4	Medium	Pravin
Sprint-4	Deployment phase	USN-17	Connecting the frontend and backend using API calls	4	Medium	Samyuktha
Sprint-4		USN-18	Cloud deployment – Deployment of application using IBM cloud	5	High	Vaishali
Sprint-4	Testing phase	USN-19	Functional testing – Checking scalability and robustness of the application	5	High	Nuzair
Sprint-4		USN-20	Non-functional testing – Checking for user acceptance and integration	5	High	Samyuktha

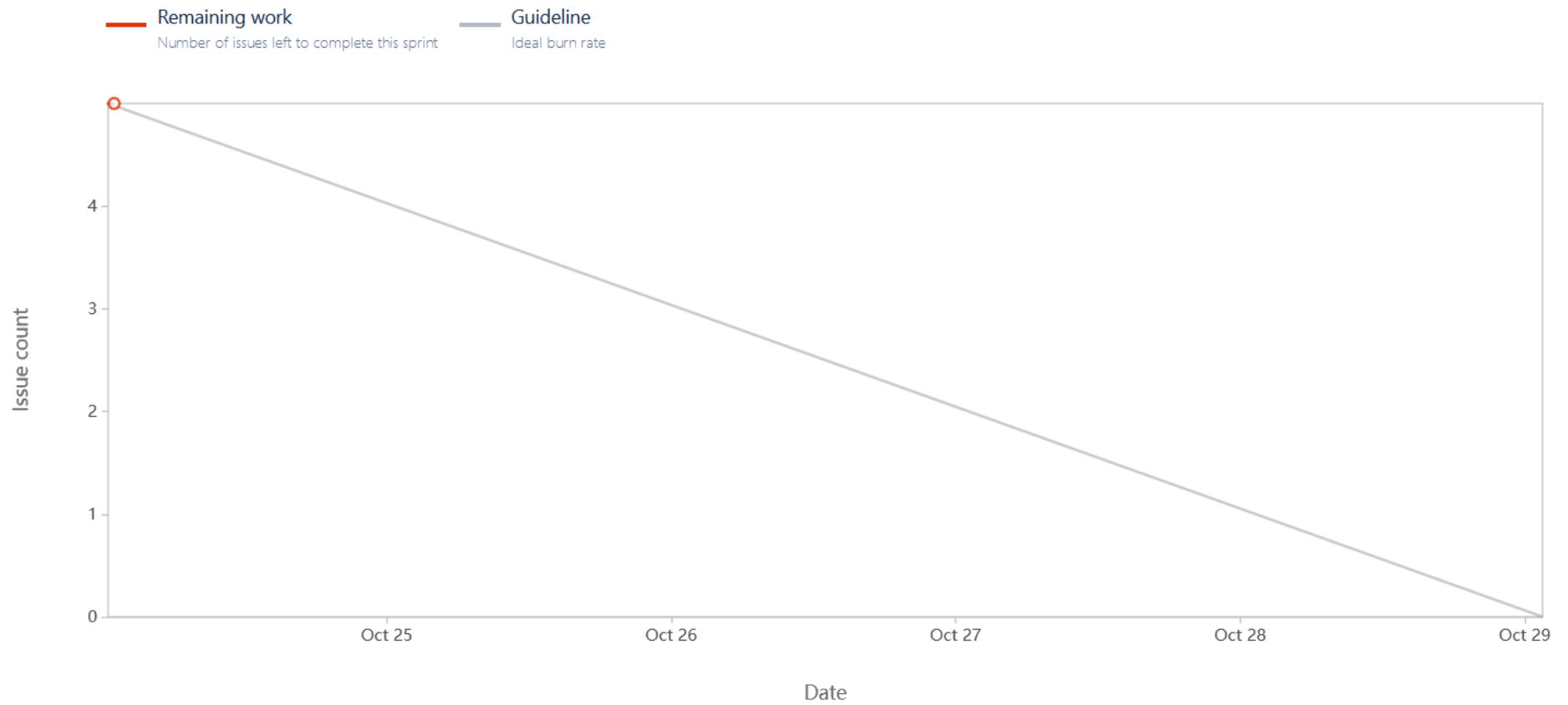
#### Project Tracker, Velocity & Burndown Chart: (4 Marks)

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	16	6 Days	24 Oct 2022	29 Oct 2022		
Sprint-2	8	4 Days	30 Oct 2022	02 Nov 2022		
Sprint-3	13	5 Days	03 Nov 2022	07 Nov 2022		
Sprint-4	24	5 Days	08 Nov 2022	12 Nov 2022		

Velocity:

$$\text{Average velocity} = 12/4 = 3$$

Burndown Chart:



## ROAD MAP:

▼ IDN Sprint 1 24 Oct – 29 Oct (5 issues)

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Complete sprint

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IDN-5 Data Acquisition – Collecting and digitalizing data for analysis

DONE ✓

IDN-6 Data Understanding – Accessing and exploring the data to get useful insights from them

TO DO ▼

IDN-7 Feature engineering – Data Manipulation

TO DO ▼

IDN-8 Data Augmentation – Increasing the amount of data to avoid overfitting

TO DO ▼

IDN-9 Model building – Building the model using transfer learning approach

TO DO ▼

+ Create issue

▸ IDN Sprint 2 30 Oct – 2 Nov (5 issues)

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Start sprint

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