Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID26799
Project Name	Digital Naturalist – AI Enabled Tool for Biodiversity Researchers
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Model Building Phase	USN-1	Collecting and digitalizing data for analysis	3	Medium	Sivaranjani T
Sprint-1	Model Building Phase	USN-2	Data Augmentation and Feature Engineering	4	High	Vedhavalli V
Sprint-1	Model Building Phase	USN-3	Building the model using transfer learning approach	4	High	Nirosha M
Sprint-1	Model Building Phase	USN-4	Evaluating the model to check the accuracy and precision	4	High	Sivaranjani T
Sprint-1	Model Building Phase	USN-5	Class Prediction	3	Medium	Vedhavalli V
Sprint-2	Development Phase	USN-6	User database creation – contains the details of user	4	High	Nirosha M
Sprint-2	Development Phase	USN-7	Web page Creation	4	High	Sivaranjani T
Sprint-2	Development Phase	USN-8	Login and register page creation - Login through email and password along with otp verification	3	Medium	Vedhavalli V
Sprint-3	Development Phase	USN-9	Area to obtain user input	3	Medium	Sivaranjani T

Sprint-3	Development Phase	USN-10	Model loading - API creation using flask.	4	High	Vedhavalli V
Sprint	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Story Points**	**Priority**	**Team Members**
Sprint-3	Development Phase	USN-11	Prediction page creation – shows prediction for user input along with description about the species	2	Low	Vedhavalli V
Sprint-4	Deployment Phase	USN-12	Connecting the frontend and backend using API calls	4	High	Sivaranjani T
Sprint-4	Deployment Phase	USN-13	Cloud deployment – Deployment of application using IBM cloud	4	High	Vedhavalli V
Sprint-4	Testing Phase	USN-14	Functional testing – Checking scalability and robustness of the application	3	Medium	Nirosha M
Sprint-4	Testing Phase	USN-15	Non-functional testing – Checking for user acceptance and integration	3	Medium	Sivaranjani T

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	18	6 Days	24 Oct 2022	29 Oct 2022		
Sprint-2	11	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	9	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	14	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:

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

$$\text{Average velocity} = 9/4 = 2.25$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.