

Project Planning Phase

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

Date	19 October 2022
Team ID	PNT2022TMID28399
Project Name	Project – EXPLORATORY ANALYSIS OF RAINFALL DATA IN INDIA FOR AGRICULTURE
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	Data collection	USN-1	The data collection will be done by downloading the weatherAUS dataset, which was available .	4	High	Deebika G (Team Member 3)
Sprint-1	Data preprocessing	USN-2	To do pre-processing we will perform data cleaning removing noisy data and do the exploratory analysis	5	High	Mahalakshmi R (Team Member 1)
Sprint-1	Data visualization	USN-3	Graphs, Pie-charts, bar plots will be used to visualize the data for better understanding.	6	High	Jesica S (Team Member 2)
Sprint-1	Feature Scaling	USN-4	Before training our dataset want our data in normalized and standard form.	7	Medium	Mahalakshmi R (Team Member 1)

Sprint-2	Splitting data into train and test	USN-5	We split the entire dataset into train and test.	5	Medium	Deebika G (Team Member 3)
Sprint-2	Training and Testing the model	USN-6	Training of the model is done after model creation	8	Medium	Jesica S (Team Member 2)
Sprint-2	Model Evaluation	USN-7	Evaluating different models by comparing their accuracy and precision	6	Low	Keerthi P (Team Leader)
Sprint-3	Build HTML code	USN-8	Further HTML pages will be developed using the same user interface and will connected to the main page	7	High	Mahalakshmi R (Team Member 1)
Sprint-3	Python code for building the web application	USN-9	Backend of the web page will be done using python.	8	High	Deebika G (Team Member 3)
Sprint-4	Train the model on IBM cloud	USN-10	Using IBM cloud Watson to store our machine learning model and connect it with the web page.	9	High	Jesica S (Team Member 2)
Sprint-4	Integrate Flask with Scoring end points	USN-11	Integrating the web page with ML model using flask	10	High	Deebika G (Team Member 3)

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	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	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)

$$AV = \text{Sprint duration} / \text{Velocity} = 20/5 = 4$$

$$\text{Total Average Velocity} = 4$$

Burndown Chart:

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