

Project Planning Phase

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

Date	08 Nov 2023
Team ID	592766
Project Name	Walmart Sales Analysis For Retail Industry with Machine Learning
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	Defining the problem	USN-1	Understanding the given problem and defining what we need to develop	1	High	Everyone
Sprint-1	Designing Empathy Map	USN-2	Thinking and defining the 5 W's who, what, when, why of the problem	2	High	Everyone
Sprint-1	Brainstorming	USN-3	Gathering ideas of every member in the group on how to solve the problem	2	High	Everyone

Sprint-2	Project Planning	USN-5	Developing solution architecture and dataflow diagram with the technology and steps on how problem will be solved	5	High	Everyone
Sprint-2	Project Setup	USN-6	Setting up of application like kaggle,anaconda,PythonFlask,CSS, html with which the model will be designed.	2	Medium	Sourav
Sprint-3	Data Collection	USN-7	Collecting dataset which has data of walmart sales	2	High	Anand
Sprint-3	Data Preprocessing	USN-8	Exploring the data and making it best suitable for the model we want to train by handling null values splitting test train data and keeping only relevant data	3	Medium	Anand
Sprint-3	Frontend Development	USN-9	Developing an webpage with HTML and CSS for user interface of the application	3	Medium	Mayank
Sprint-4	Model Development	USN-10	Develop the model with correct functions to predict sales	6	High	Everyone
Sprint-4	Model Training	USN-11	Train the model using suitable algorithm	4	High	Mayank

Sprint-4	Model Deployment and Integration	USN-12	Deploy the trained deep learning model as an API or web service to make it accessible to naive user	5	High	Vishvender
Sprint-5	Testing and Quality assurance	USN-13	Test the model and ensure the quality	3	Medium	Vishvender
Sprint-5	Documentation	USN-14	Document the whole project	4	Medium	Sourav

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	5	2 Days	8 Nov 2023	9 Nov 2023	5	9 Nov 2023
Sprint-2	7	1 Days	10 Nov 2023	10 Nov 2023	7	10 Nov 2023
Sprint-3	8	1 Days	11 Nov 2023	11 Nov 2023	8	11 Nov 2023
Sprint-4	15	7 Days	12 Nov 2023	18 Nov 2023	15	18 Nov 2023
Sprint-5	7	3 Days	19 Nov 2023	21 Nov 2023	7	21 Nov 2023

Velocity:

Sprint	Sprint Points	Sprint Duration	Average Velocity
Sprint-1	5	2	2.5
Sprint-2	7	1	7
Sprint-3	8	1	8
Sprint-4	15	7	2.5
Sprint-5	7	3	2.5

Average Velocity: $42/14 = 3$

Burndown Chart:

