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

Date	23 October 2022
Team ID	PNT2022TMID10058
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
Maximum Marks	8 Marks

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

Sprint	Functional	User Story	User Story / Task	Story	Priority	Team
	Requirement (Epic)	Number		Points		Members
Sprint-1	Rainfall Prediction	USN-1	Collecting weather dataset, data	5	High	Suresh,
	Model		preprocessing the data and do a data			Thavaprakash
			visualization			
Sprint-1		USN-2	Train rainfall Prediction model using	5	Medium	Sriraja,
			different machine learning algorithms			Surendra
Sprint-1		USN-3	Test the best model and save best model	5	High	Sriraja,
			by pickle library			Surendra
Sprint-1	Crop	USN-4	Collecting sowing crop dataset, data	5	High	Suresh,
	Recommendation		preprocessing the data and do a data			Thavaprakash
	Model		visualization			
Sprint-1		USN-5	Train crop recommendation model using	5	Medium	Sriraja,
			different machine learning algorithms			Surendra
Sprint-1		USN-6	Test the best model and save best model	5	High	Sriraja,
			by pickle library			Surendra

Sprint	Functional	User Story	User Story / Task	Story	Priority	Team
	Requirement (Epic)	Number		Points		Members
Sprint-2	Registration	USN-7	User can register for the application by	5	Medium	Suresh,
			entering his or her email, password, and			Thavaprakash
			confirming the password.			
Sprint-2		USN-8	User will receive confirmation email or	5	Low	Suresh,
			message once registered for the			Thavaprakash
			application			
Sprint-2	Login	USN-9	Enter the username and password to login	5	Medium	Suresh,
			to the application			Thavaprakash
Sprint-2		USN-10	The existing credentials should be used for	5	Medium	Suresh,
			login on multiple systems			Thavaprakash
Sprint-2	Dashboard	USN-11	Forecast the today weather	10	Low	Sriraja,
						Surendra
Sprint-3	Rainfall Prediction	USN-12	User can enter the weather parameters like	5	High	Surendra,
			min temp, max temp, etc			Thavaprakash
Sprint-3		USN-13	Predict the rainfall and display the result	5	High	Sriraja, Suresh
Sprint-3	Crop	USN-14	User can enter the soil parameters like	5	High	Surendra,
	Recommendation		nitrogen, ph. value, etc			Thavaprakash
Sprint-3		USN-15	Predict the sowing crop and display the	5	High	Sriraja, Suresh
			result			
Sprint-4	Testing	USN-16	Test the application	10	High	Surendra,
						Thavaprakash
Sprint-4	Deploy Model	USN-17	deploy the model in IBM cloud to make	10	High	Sriraja, Suresh
			user friendly application			

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

Sprint	Total Story	Duration	Sprint Start Date	Sprint End Date	Story Points	Sprint Release Date	
	Points			(Planned)	Completed (as on	(Actual)	
					Planned End Date)		
Sprint-1	30	6 Days	24 Oct 2022	29 Oct 2022	30	30 Oct 2022	
Sprint-2	30	6 Days	31 Oct 2022	05 Nov 2022	30	06 Nov 2022	
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	13 Nov 2022	
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	20 Nov 2022	

Velocity:

We have a 6-day sprint duration, and the velocity of the team is 20 to 30 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity}$$

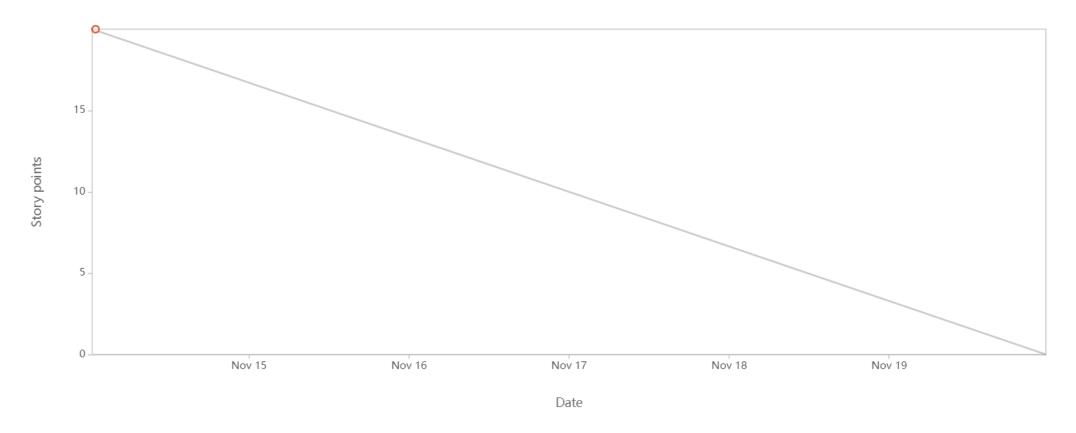
Sprint	Average Velocity
Sprint-1	5
Sprint-2	5
Sprint-3	3.33
Sprint-4	3.33

Total Average Velocity = 4.16

RoadMap

	2.	OC 23 24 25 26 27	NOV 31 1 2 3 4	5 6	7 8 9	NOV 10 11	12 13	14 15	NOV 16 17 1	8 19 2
Sprints		Sprint 1	Sprint 2		S	print 3			Sprint 4	
✓ ✓ IP-20 Rainfall Prediction Model										
□ IP-21 Data Collection	то ро									
■ IP-22 Data Preprocessing	то до									
■ IP-23 Data Visualization	TO DO									
■ IP-24 Train Rainfall Prediction Model	то до									
■ IP-25 Test the Model	то до									
■ IP-26 Save the Model	TO DO									
✓ ✓ IP-27 Crop Recommendation Model										
□ IP-28 Data Collection	то ро									
■ IP-29 Data Preprocessing	то до									
■ IP-30 Data Visualization	то ро									
■ IP-31 Train Crop Recommendation Model	TO DO									
■ IP-32 Test the Model	то до									
■ IP-33 Save a Model	то до									
✓ ☑ IP-34 Registration										
□ IP-35 Registration Page	TO DO									
■ IP-36 User Authentication	TO DO									
✓ • IP-37 Login										
□ IP-43 Login Page	то до									
■ IP-44 User Authentication	то ро									
✓ ✓ IP-38 Dashboard										
□ IP-45 Dashboard Page	TO DO									
✓ MP-39 Rainfall Prediction										
IP-46 Rainfall Prediction Page	TO DO									
	TO DO									
✓ ✓ IP-40 Crop Recommendation										
■ IP-48 Crop Recommendation Page	TO DO									
	TO DO									
✓ ☑ IP-41 Testing										
■ IP-50 Testing the Application	TO DO									
▼ 1 IP-42 Deploy Model										
	TO DO									
	TO DO									

Burndown Chart:



Atlassian link:

https://srirajab.atlassian.net/jira/software/projects/IP/boards/1/roadmap?shared=&atlOrigin=eyJpIjoiNGM3MGMxY2QxZGQyNDRIZjkyMzQ1NTg2NDIIY2Ji N2IiLCJwIjoiaiJ9