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

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Team ID	PNT2022TMD39901
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
Maximum Marks	4 Marks
Team Leader	Saravanakumar K
Team Members	Lokesh B, Martin Thomas Y, Magesh P

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

Sprint	Functional	User Story	User Story / Task	Story	Priority	Team			
	Requirement (Epic)	Number		Points		Membe	ers		
Sprint-1	Rainfall Prediction Model	USN-1	Collecting weather of preprocessing the divisualization			5	High	Team Lead, Team Member 2	
Sprint-1		USN-3	Test the best model by pickle library	and save b	est model	5	High	Team lead	
Sprint-1	Crop Recommendation Model	USN-4	Collecting sowing cr preprocessing the divisualization	•		5	High	Team Member1, Team Member2	
Sprint-1		USN-5	Train crop recomme different machine lea		_	5	Medium	Team Member2, Team Member3	

Sprint-1		USN-6	Test the best model and save best model by pickle library	5	High	Team lead Team Member1, Team Member2
Sprint-2	Registration	USN-7	User can register for the application by entering his or her email, password, and confirming the password.	5	Medium	Team Member1, Team Member2
Sprint-2		USN-8	User will receive confirmation email or message once registered for the application	5	Low	Team Member2, Team Member3
Sprint-2	Login	USN-9	Enter the username and password to login to the application	5	Medium	Team lead
Sprint-2		USN-10	The existing credentials should be used for login on multiple systems	5	Medium	Team lead Team Member3
Sprint-2	Dashboard	USN-11	Forecast the today weather	10	Low	Team Lead, Team Member 2
Sprint-3	Rainfall Prediction	USN-12	User can enter the weather parameters like min temp, max temp, etc.	5	High	Team Member2, Team Member3
Sprint-3		USN-13	Predict the rainfall and display the result	5	High	Team Member2,
Sprint-3		USN-15	Predict the crop to be harvested and display the result	5	High	Team lead Team Member1
Sprint-4	Testing	USN-16	Test the application	10	High	Team lead Team Member3
Sprint-4	Deploy Model	USN-17	deploy the model in IBM cloud to make user friendly application	10	High	Team Member1, Team Member2

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

Sprint Total Story Du		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

	23	24 25	OCT 26 27 28 2	29 30	31 1	NOV 2 3 4	5 6	NOV 7 8 9 10 11 12	13 14	NO\ 15 16 17	
Sprints			Sprint 1			Sprint 2		Sprint 3		Sprint 4	
✓ ✓ IP-20 Rainfall Prediction Model											
■ IP-21 Data Collection	то ро										
■ IP-22 Data Preprocessing	TO DO										
■ IP-23 Data Visualization	то ро										
■ IP-24 Train Rainfall Prediction Model	TO DO										
■ IP-25 Test the Model	то ро										
■ IP-26 Save the Model	то ро										
▼ IP-27 Crop Recommendation Model											
■ IP-28 Data Collection	то ро										
	то ро										
■ IP-30 Data Visualization	TO DO										
□ IP-31 Train Crop Recommendation Model	TO DO										
■ IP-32 Test the Model	TO DO										
■ IP-33 Save a Model	TO DO										
✓ IP-34 Registration											
■ IP-35 Registration Page	то ро										
■ IP-36 User Authentication	то ро										
✓ ✓ IP-37 Login											
□ IP-43 Login Page	то ро										
□ IP-44 User Authentication	то ро				u.						
✓ ✓ IP-38 Dashboard											
□ IP-45 Dashboard Page	TO DO										
	10 00										
∨											
IP-46 Rainfall Prediction Page	то ро										
	TO DO										
▼ IP-40 Crop Recommendation											
■ IP-48 Crop Recommendation Page	TO DO										
■ IP-49 Predicted Result Page	TO DO										
✓ ► IP-41 Testing											
■ IP-50 Testing the Application	TO DO										
✓ → IP-42 Deploy Model											
■ IP-51 Deploy Model in IBM Cloud	TO DO										

Burndown Chart:

