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Project Planning Phase

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

Date	26 October 2022
Team ID	PNT2022TMID04190
Project Name	Project - Emerging Methods for Early Detection of Forest Fires
Maximum Marks	20 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	Registration	USN-1	As a user, I should be able to register myself in the application by giving my email ID, phone number, username and password	5	High	Karthik Sri Sakthi Degala
Sprint-1	Login	USN-2	As a user, I should be able to access my account using my username and password	5	High	Karthik Sri Sakthi Degala
Sprint-1	Data Collection	USN-3	Collection of data (images) for testing and training data	4	High	Jeevaprakash T
Sprint-1	Data preprocessing	USN-4	Image preprocessing and image segregation for the ease of training AI model and helps to classify images.	6	Medium	Jeevaprakash T
Sprint-2	Model Training	USN-1	Training an AI model using the preprocessed data using AI techniques like CNN, RNN, and YOLO Algorithms.	10	Medium	Srinithi Samyuktha S J

Sprint-2		USN-2	Computer Vision (OpenCV) for video processing and techniques like frame-to-frame segmentation, image interpolation.	10	Medium	Srinithi Samyuktha S J
Sprint-3	Local Implementation	USN-1	Integration of the AI model and the webpage for user interface	10	Medium	Priya Dharshini R
Sprint-3		USN-2	Activation of Twilio account and integration of Twilio	3	High	Priya Dharshini R
			account with Open CV and the previously integrated AI model			
Sprint-3		USN-3	Testing of SMS alert by implementing the entire model locally using Python-Flask	7	Medium	Jeevaprakash T
Sprint-4	Cloud Deployment	USN-1	Creation of the IBM Cloud services which are being used in this project.	6	High	Karthik Sri Sakthi Degala
Sprint-4		USN-2	Configuration of the IBM Cloud depending on the project	2	Medium	Karthik Sri Sakthi Degala
Sprint-4		USN-3	Training of the AI model in the cloud with the preprocessed data and saving them.	2	High	Srinithi Samyuktha S J
Sprint-4		USN-4	Integrating the cloud trained AI model with webpage, OpenCV and Twilio API services.	4	High	Srinithi Samyuktha S J

Sprint-4		USN-5	Final deployment of the entire integrated model	6	High	Karthik Sri Sakthi Degala, Jeevaprakash T, Srinithi Samyuktha S J, Priya Dharshini R

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).

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$