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

Date	11 November 2022
Team ID	PNT2022TMID54434
Project Name	Emerging Methods for Early Detection of Forest Fires
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	Collect the data	USN-1	As an Environmentalist.it is necessary to collect the data of the forest which includes data else the temperature,humidity,wind and rain prediction may of the forest	3	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N
Sprint-1	Splitting the dataset	USN-2	The collected dataset is split into train and test.	3	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N
Sprint-1	Image Preprocessing	USN-3	Dataset is further preprocessed by ImageDataGenerator.	3	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N
Sprint-2	Model Building	USN-4	Importing the model building libraries, Initalizing the model and adding the CNN and dense layers. Configuring the learning process	3	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N
Sprint-2	Model Building	USN-5	Training and saving the model	3	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N
Sprint-2	Model Building	USN-6	Predictions	3	High	SONA SHIVA SWATHY R THILAGAVATHY E

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
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Sprint-3	Video Analysis	USN-7	OpenCV for Video Processing	3	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N
Sprint-3	Video Analysis	USN-8	Creating an account in Twilio Service	3	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N
Sprint-3	Video Analysis	USN-9	Sending Alert Message	3	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N
Sprint-4	Training CNN Model on Cloud	USN-10	Registering on Cloud, Train Image Classification Miodel	5	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N
Sprint-4	Implementation	USN-11	Implementation of the model on real-time data	4	High	SONA SHIVA SWATHY R THILAGAVATHY E VITHIYA N

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	9	2 Days	11 Nov 2022	12 Nov 2022	9	12 Nov 2022
Sprint-2	9	2 Days	13 Nov 2022	14 Nov 2022	9	14 Nov 2022
Sprint-3	9	2 Days	15 Nov 2022	16 Nov 2022	9	16 Nov 2022
Sprint-4	9	2 Days	17 Nov 2022	18 Nov 2022	9	18 Nov 2022

Velocity:

Sprint duration = 2 days
Velocity of the team = 36÷4=9 (points per sprint)
The team's average velocity (AV) per iteration unit (story points per day),

$$AV \ = \ Sprint\,Duration \ \div \ Velocity \ = \ 9 \ \div \ 2 \ = \ 4.5$$

Burndown Chart: