

Project Design Phase - 2

Data Flow Diagram and User Stories

Date	14 - 10 - 2022
Team ID	PNT2022TMID34944
Project Name	Emerging Methods for Early Detection Of Forest Fire

User Stories

Use the below template to list all the user stories for the product.

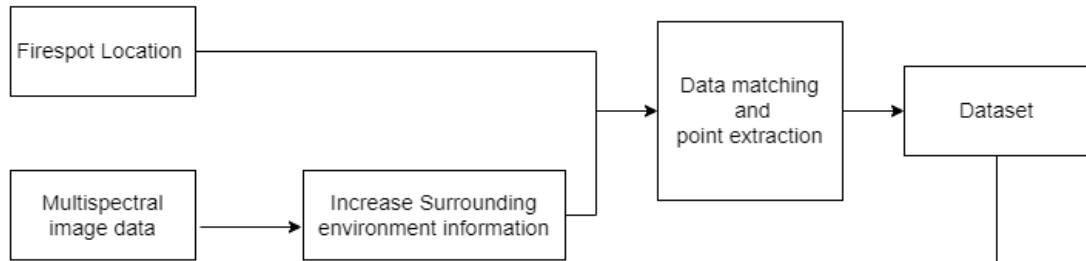
User Type	Functional Requirement (epic)	User Story Number	User Story / Task	Acceptance Criteria	Priority	Release
Customer (Forest officer on duty)	Monitoring	USN-1	As a user, I need to monitor the whole forest by roaming around the forest.	I can able to find whether fire occurs or not.	Low	Sprint 1
		USN-2	As a user, I need to check the functionality of the camera and the system.	I would come to know about the working of the system,	High	Sprint 1
	Alerting	USN-3	As a user, when fire occurs I need to alert the higher officers regarding the fire	I can tell my higher authorities regarding the fire.	Medium	Sprint 2
		USN-4	As a user, I also need to alert the people in the forest to move out safely.	I can make it fast	High	Sprint 2
	Taking action to suppress fire	USN-5	As a user , I need to find the exact location of fire by listening to the alarm.	I can reach there by the alarm direction.	High	Sprint 2
		USN-6	As a user, I make sure that the animals living in the forest are safe and would move them out fast.	I am able to get the animals out of the forest.	High	Sprint 2
		USN-7	As a user, I need to checkout the possibilities to suppress the fire by it's vigilance	By getting information, I can able to suppress it.	High	Sprint 2
Customer (Fire Station - Higher Officer)	Getting Information	USN-8	As a user, I would get the Alert of fire in the forest and the fire's spread range which had been measured by the deep learning algorithms.	I will get the details of the fire	High	Sprint 3
		USN-9	As a user, I will also get to	I can able to get there	High	Sprint 3

			know about the exact location of the fire which is directed by the GPS.	as I know the location.		
	Analysing	USN-10	As a user, I need to analyse the information and get into the decision to suppress the fire in the forest.	I can take a decision as I have experience in forest fire handling	High	Sprint 3
	Ordering	USN-11	As a user, I would order my officers to get to the fire's location and take such measures to stop the fire.	I am the higher authority and can give orders to them	Medium	Sprint 4
Customer (Fire officer)	Viewing	USN-12	As a user, I need to gather the information from the real scenario. And so would view the forest clearly to take the measures.	I know the location and can get there and view it.	Medium	Sprint 5
	Obedying the orders	USN-13	As a user, I need to obey my higher officers command and take the measures mentioned by them.	I am in the way to obey the orders	Medium	Sprint 4
	Suppression of fire	USN-14	As a user, I will look up the fire range. if it is spreading fast, then I would prioritise methods such as acid rain, using chemicals to stop the fire.	I am already trained for such situations and it would help me to do this work.	High	Sprint 2
		USN-15	As a user, I will observe the forest. If the fire's range is Not so furious, then it's easy to suppress the fire using sand and water.	I can able to easily manage the situation.	High	Sprint 2

Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Create Dataset



Training and Testing

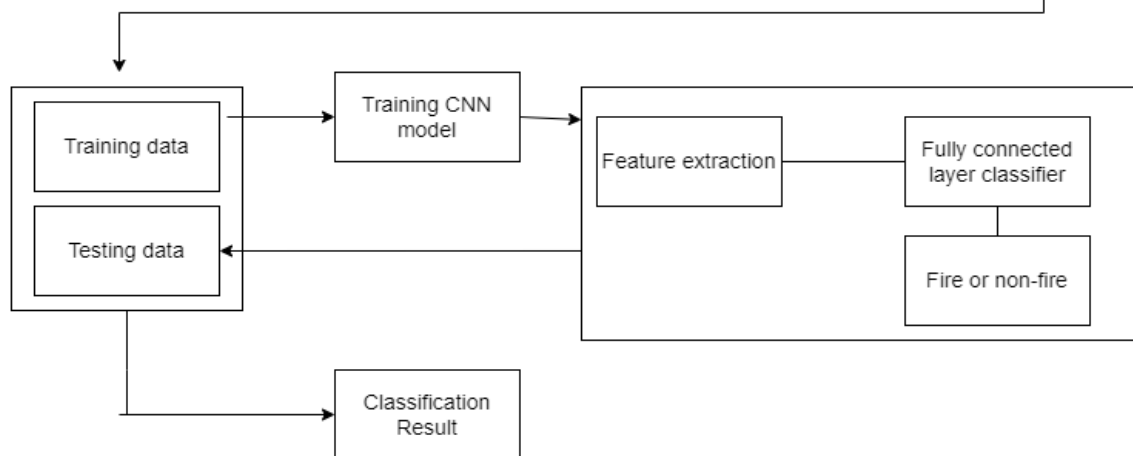


Image Processing

