

**Project Design Phase-II**  
**Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)**

Date	27 October 2023
Team ID	592862
Project Name	Detect Smoke with The Help of IOT Data And Trigger A Fire Alarm

**Product Backlog, Sprint Schedule, and Estimation**

Sprint	Functional Requirement (Epic)	Task/Story number	Story / Task	Points	Priority
Sprint-1	High Detection Accuracy	1	The system must achieve a minimum accuracy rate of more than 95% in detecting smoke to ensure reliable and effective smoke detection.	1	High
Sprint-1	Early Smoke Detection	2	The system must detect smoke within 1 minute of its occurrence to enable quick response and minimize potential fire damage.	1	High
Sprint-2	Scalability and Flexibility	3	The system must be scalable to accommodate varying sensor types, configurations, and building sizes, and be easily adaptable to different environments, such as residential, commercial, or industrial.	1	High
Sprint-2	Robust Data Privacy and Security	4	The system must encrypt and secure all IoT data, comply with relevant data privacy regulations, and implement robust security measures to protect against data breaches and unauthorized access.	1	High
Sprint-3	Performance Monitoring and Reporting	5	The system must provide performance monitoring and reporting features, generating periodic reports on smoke detection accuracy, false positives/negatives, system	2	High

			uptime, and alarm response time for continuous improvement and accountability		
Sprint-4	User Interface	6	The system must have a user-friendly and intuitive interface for easy configuration, monitoring, and management by authorized personnel. A UI is provided for the user where he has to enter the values for predictions.	2	High

**Project Tracker, Velocity & Burndown Chart:**

Sprint	Total story points	Duration(days)	Sprint start date	Sprint end date	Story points completed as planned on end date
1	2	3	28 Oct 2023	30 Oct 2023	2
2	2	2	31 Oct 2023	1 Nov 2023	2
3	2	2	2 Nov 2023	3 Nov 2023	
4	2	3	4 Nov 2023	6 Nov 2023	

Velocity of team=2  
 Sprint duration=2.5 days  
 Average velocity=2/2.5=0.8

Burndown Chart

