

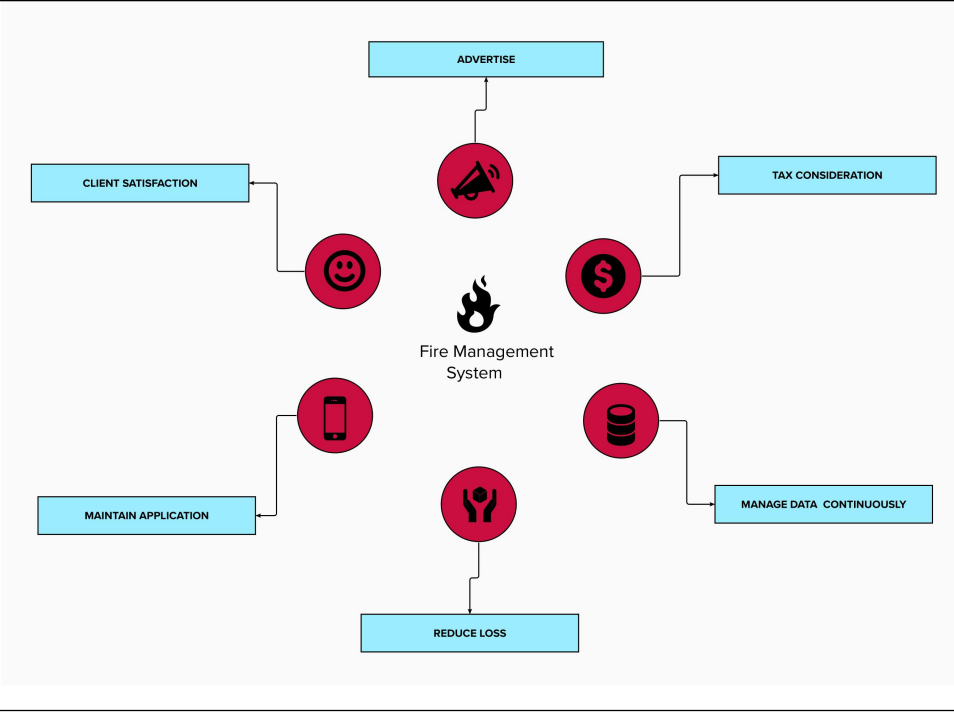
Project Design Phase-I
Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID19393
Project Name	Project - Industry–Specific Intelligent Fire Management System
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To detect fire and gas leakage in industries using IOT and to reduce the loss of life and property by deploying IOT based fire detection system.
2.	Idea / Solution description	The smart fire management system includes a Gas sensor, Flame sensor and temperature sensors to detect any changes in the environment. Based on the temperature readings and if any Gases are present the exhaust fans are powered ON.
3.	Novelty / Uniqueness	If any flame is detected the sprinklers will be switched on automatically. Emergency alerts are notified to the authorities and Fire station.
4.	Social Impact / Customer Satisfaction	To detect the fire and alert them to the customers. By this, the tremendous loss can be avoided.

5.	Business Model (Revenue Model)	
6.	Scalability of the Solution	<p>The future will be with multi criteria detection in which the detector will be more of a sensor, with the detection more for the products of combustion, such as carbon monoxide, carbon dioxide, sulfur dioxide, nitrogen oxides in addition to heat and particulate matter.</p>