ProjectDesignPhase-I

ProblemSolutionFit

Date	15OCTOBER2022	
TeamID	PNT2022TMID26579	
ProjectName	GasLeakageMonitoringandAlertingSystemfor Industries	

1. CUSTOMER SEGMENT(S) The industrialists who use gases fortheir manufacturing. The detection ofleakage prevents the loss of lives.	6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES High budget in installing other productsmake them to move far from moderntechnologies.	Buzzer to indicate the leakage.GSMmodulehelpsustogetnotific ationwhenthere isagasleakage.Usageofsensorstosensega
Suffering from many losses due togasleakage. Havingnopropersystemforcontrollin gormonitoringtheleakage. Facingheavybudgetproblemsinbuyi ng and installing a system formonitoringandcontrolling.	Sometimessensordoesn'tworkp roperly which can cause themajorproblem. Man power could reduceelectricity cost and monitorproperly, it may cause high riskfortheirlife.Thereisalsoacause ofsomeerrorsduetomanpower.	Ifthegasleakedisheavilytoxic,therei sachanceofcausinghereditaryhealt hissuestoo. Todeterminethegascharacteristics and solve the issue,theywilllocatetheleakandiden tifythewarning.
3. TRIGGERS TO ACT The heavy damages or higher health issuesduetothetoxicgasesurgesthemtofindou tasolutionas soonastheycouldpossible. 4. EMOTIONS BEFORE / AFTER Before: The heavy losses due to the leakages madethemfeelofguiltduetoreducedreputationofthei rproducts. After:Increasedthelevelofconfidenceandfeelsecured	Develop an efficient system & anapplication that can monitor and alert theworkers. Low cost IOT based device thatcan be easily accessed and fixed bypeople.Network strength must beboosted in the device. Device can bemanufacturedinmultiplestandardsbase dontheenvironment.	8. CHANNELS of BEHAVIOR ONLINE Promoting through social mediaMonitorthe status of the sensorsNotification incaseofanygasleakage. OFFLINE Prevent physical damage tosensor.Through newspaperadvertisementsandcompla