

PROPOSED SOLUTION FIT

DOMAIN: IOT

PROJECT TITLE: GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR

INDUSTRIES.

TEAM ID: PNT2022TMID15954

TEAM MEMBERS:

1)BHERMAL ADARSH JAIN (TEAM LEADER)

2) GUVVALA NIKHIL REDDY

3) JAY BALDIYA JAIN

4)A. LALITH KUMAR

Project Title: Gas Leakage monitoring & Alerting system for Industries 1. CUSTOMER 6. CUSTOMER 5. AVAILABLE SOLUTIONS SEGMENT(S) What constraints prevent your customers from taking action or limit their choices Which solutions are available to the customers when they face the problem of solutions? i.e. spending power, budget, no cash, network connection, available devices. or need to get the job done? What have they tried in the past? What prov & cons dothese Who is your customer? solutions have? i.e. pen and paper is an alternative to digital notetaking ✓ It measures toxic gases in very Testbenches, Quick connectors (They Most of Industry workers who low concentrations. enable a fast and tight "Connection" also are engaged with gas related It has ability to detect wide range on non-round and cast surfaces), Leak productions. of gases. tester are some of the available solutions. It is difficult to know failure J&P 2. JOBS-TO-BE-DONE / PROBLEMS 9. PROBLEM ROOT CAUSE 7. BEHAVIOUR Which jobs-to-be-done (or problems) do you address for your customers? There What does your customer do to address the problem and get the job done? What is the real reason that this problem exists? What is could be more than one; explore different sides. i.e. directly related find the right solar purel installer, calculate usage and benefits, indirectly the back story behind the need to do this job? associated: customers spend free time on volunteering work (i.e. Greenpeuce) i.e. customers have to do it because of the chance in regulations Have a check of where it has the sense of Behind this gas leakage problem there Flammable gas leakage may lead to Harmful gases such as H2S, Methane, and CO. could be many reasons like atomic secondary accidents such as fire and reactions between gas molecules, explosion, while toxic gas dispersion Will also check for temperature sensor that material's quality...etc. Even though mainly leads to poisoning casualties helps to detect the concentration of the gases customers have to do this job then only we lead to death. present in the atmosphere to avoid hazardous can get our end products or needful consequences like fire breakouts. chemical solutions. SL TR CH 3. TRIGGERS 10. YOUR SOLUTION 8. CHANNELS of BEHAVIOUR Extract online & offline CH of BE What triggers customers to act? i.e. seeing their neighbour installing solar If you are working on an existing business, write down your current solution first, fill in panels, reading about a more efficient solution in the news. What kind of actions do customers take online? Extract online channels from #7 the canyas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill inthe In online, user can monitor the each sensor and its rates, Constitution should bring gas leakage indicating system as a ganvas and come up with a solution that fits within customer limitations, solves a problem mandatory precaution in every factory and industries like fire sensor like temperature, gas, humidity, oxygen level. Also have the statistical report. extinguisher. We are planning to fit a sensor nearby the gas Precautions can be altered and users take care of the plants which will detect if there is any leak of EM 4. EMOTIONS: BEFORE / AFTER What kind of actions do customers take offline? Extract offline channels from #7and use gas. If there is a gas leak then we will send a How do customers feel when they face a problem or a job and afterwards? them for customer development message to admin department and also alarm will i.e. lost, insecure > confident, in control - use it in your communication strategy & design. The have to manually check the leakage of be set on so that the workers can know about the gases when the statistics changes. While facing the problem people may get fatigue, dizziness, leak and run into a safe place severe headache, loss of concentration, loss of consciousness. Handling the critical situation should be taken Afterwards people feel insecurity because of the health issues

it's hard for them to lead a normal life.

care of the safety officers.