PROJECT DESIGN PHASE-I

PROPOSED SOLUTION TEMPLATE

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| Date | 24th september 2022 |
| Team ID | PNT2022TMID00378 |
| Project Name | Gas Leakage Monitoring and Alerting System |
| Maximum Mark | 2 Marks |

PROPOSED SOLUTION TEMPLATE:

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| S.NO | PARAMETER | DESCRIPTION |
| 1. | PROBLEM STATEMENT  (Problem to be solved) | Gas leakage is one of the major issues in industries.The leakage of a gas leads to major fire accidents which lead to heavy damage inside the industry and also to the workers in the industry as well as the loss of human beings .It is feasible to detect the gas leakage before sny disaster happened.So industries need a very efficient gas leakage monitoring and detection system .The aim of this paper is to propose an industrial safety system for workers working in these types of polymer industries by automatically detect,alert and control gas leakage ,fire and smoke using IOT based system. |
| 2. | IDEA /SOLUTION DESCRIPTION | In order to overcome the leakage problem ,the proposed solution consist of an gas sensor integrated to monitor .If gas leakage is detected in any area the admins will be notified along with the location, and the admins can view the sensor parameters through the web application. |
| 3. | Noveity/Uniqueness | Even though there are many solutions for this problem they failed to satisfy the needs of the customers or workers .Some of the solutions detect and alert only to the main department related to the industry and other solutions are with defects. Our proposed solution not only notify the industry person but also notify the fire fighters so that can take control over the situation and our solution will also alert the workers even there is a small leakage of gas. |
| 4. | SOCIAL IMPACT/CUSTOMER SATISFACTION | The benefit of a gas detection and alerting system is that it will provide the customer or worker with 24/7 monitoring ,and it can watch all areas. Even if you have a section left unmanned the majority of the time,It still can monitor to warn your personnel of a hazardeous environment before entering.Through this proposed solution the workers lives can be saved. |
| 5. | BUSINESS MODEL(Revenue model) | The ain target of our solution is industries so we have planned to visit industrie and explain them about the benefits of our products .so that they can aware of the importance of this solution and use it. |
| 6. | Scalability of the solution | Our solution can be integrated for further future use because the solution we have provided with be lay on the basic or initial stage of any upgraded version |