**Project Title: Project Design Phase-I** - **Solution Fit Template Team ID:** PNT2022TMIDxxxxxx

**Focus on J&P, tap into BE, understand RC**

**Explore AS, differentiate**

**Deﬁne CS, ﬁt into CC**

* The presence of a gas detection system reduces the likelihood of a fire by continuously monitoring the environment and stopping any further gas leaks.

**AS**

**5. AVAILABLE SOLUTIONS**

* Low amounts of hazardous gases are measured.
* It can identify several different gases.
* Knowing failure can be challenging.

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

1. **CUSTOMER SEGMENT(S)**

* Most workers in the industry who are involved in gas-related manufacturing.

**Explore AS, differentiate**

**Define CS, fit into CC**

* The use of gas sensors to gather the data required to analyse the system’s health, and the uploading of that data into the programme.
* In order to explore the features of the application.

**BE**

**7. BEHAVIOUR**

**RC**

**9. PROBLEM ROOT CAUSE**

* Numerous factors, such as atomic interactions between gas molecules, the quality of the material, etc.., could be the cause of this gas leaking issue.
* Customers must perform this task even though it is necessary for us to receive our finished goods or the necessary chemical solutions.

**J&P**

**2. JOBS-TO-BE-DONE / PROBLEMS**

* To identify gas leaks and avoid explosions.
* Control the levels of gas concentration.
* Industrial task automation without lag time or mistakes.

**Focus on J&P, tap into BE, understand RC**

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**Identify strong TR & EM**

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| --- | --- | --- | --- | --- |
| **Identify strong TR & EM** | **3. TRIGGERS TR**   * In every business and industry, like fire extinguishers, the Constitution should mandate the installation of a gas leakage indicating system. | **10. YOUR SOLUTION**  A sensor that will detect gas leaks will be installed close to the gas plants, as is our intention. The administration department will receive a notification if there is a gas leak, and an alarm will also be activated so that the employees are aware of the leak and can flee to a safe location. | 1. **CHANNELS of BEHAVIOUR CH**   8.1 ONLINE   * Users can track each sensor’s rates online, including those for temperature gas humidity, and oxygen level. * Possess the statistical report as well as well as changes can be made to precautions.   8.2 OFFLINE   * Data gathering. * Putting into practice the recommendation made by the application. |  |
| **4. EMOTIONS: BEFORE / AFTER EM**  People who are dealing with the issue may experience exhaustion, vertigo, a strong headache, lack of focus ,or loss of consciousness. Afterward, people experience insecurity as a result of their health problems, which make it difficult for them to lead a regular life. |