**Project Design Phase-I**

**Problem Solution Fit**

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

**Explore AS, differentiate**

**Deﬁne CS, ﬁt into CC**

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| --- | --- |
| Date | 01 October 2022 |
| Team ID | PNT2022TMID33005 |
| Project Name | Project - Hazardous Area Monitoring for Industrial Plant powered by IoT |
| Maximum Marks | 4 Marks |

**Problem Solution Fit template:**  **Hazardous Area Monitoring for Industrial Plant powered by IoT**

**AS**

**5. AVAILABLE SOLUTIONS**

* The best solution is to keep tracking of the workers and monitoring that area regularly
* Pros: reduced risk and highly secured
* Cons: privacy
* Workers feel insecure to work in that area
* People surrounded also feels insecure
* Which makes them to distract from their work easily

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

**1. CUSTOMER SEGMENT(S)**

The small and large industry deals with hazardous substances like chemicals, highly flammable, electronics etc.

**Explore AS, differentiate**

**Define CS, fit into CC**

**BE**

**7. BEHAVIOUR**

* They need to find the hazardous areas and also determine what kind of hazardous substance they are having like gaseous, liquids or solid materials
* And to place the right sensors to sense that
* Place more cameras and trackers in hazardous areas

**RC**

**9. PROBLEM ROOT CAUSE**

The problem exist only because of the substance or raw materials used in industries like chemicals, highly flammable substance, electronics chips etc.

**J&P**

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

* To ensure the safety of the workers
* To monitor the hazardous area for the safety of the workers and the environments too
* It can be done by tracking the exact location of the workers and alarming in danger situations
* And also we can navigate them in dangerous situation to the safer places

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

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| --- | --- | --- | --- | --- |
| **Identify strong TR & EM** | **3. TRIGGERS TR**  Since the workers are ensured with safety in the industries working with safer environment and with reduced danger and losses they can be triggered to approach this technology | **10. YOUR SOLUTION SL**     * Monitor the hazardous area properly with different sensors and cameras * Keep tracking the workers with exact location to protect them from danger * Which will be helpful in danger situation to rescue them safely * Notify the workers in hazardous area to move away from that * And also to make an alarm sound signal | 1. **CHANNELS of BEHAVIOUR CH**     1. **ONLINE**   Team leader or members of that team can regularly coordinate them wireless communication through IOT   * 1. **OFFLINE**   Peoples who came as a volunteer can also work as a security on the hazardous areas. . | **Identify strong TR & EM** |
| **4. EMOTIONS: BEFORE / AFTER EM**   * Before : insecure, fear of health issues * After : feels secure and protective |