 IOT Based Safety Gadget for Child Safety Monitoring and Notification

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| **Deﬁne CS, ﬁt into CC** | **1. CUSTOMER SEGMENT(S) CS**  **Who is your customer?**  According to our problem statement, industries and commercial establishments that manufacture or work with hazardous gases. | **6. CUSTOMER CONSTRAINTS CC**  **What constraints prevent your customers from taking action or limit their choices of solutions?**  Our gas leakage detector is cost effective and requires 24 hours high-speed internet connection to work effectively. | **5. AVAILABLE SOLUTIONS AS**  **Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have?**  When the user receives the notification about the leakage of gas, he can immediately commence the process of reparation beginning with the evacuation of workers from the facility. | **Explore AS, differentiate** |
| **Focus on J&P, tap into** | **2. JOBS-TO-BE-DONE / PROBLEMS J&P**  **Which jobs-to-be-done (or problems) do you address for your customers?**  The gas leakage detector should be able to swiftly detect the leakage of toxic gas and should notify the owners immediately about the leakage. | **9. PROBLEM ROOT CAUSE RC**  **What is the real reason that this problem exists? What is the back story behind the need to do this job?**  Gas leakages in industries occur due to various reasons like low-quality pipelines, negligence of workers etc. this can be prevented by using an IOT based gas leakage monitoring system which uses internet to warn the user about the leakage. | **7. BEHAVIOUR BE**  **What does your customer do to address the problem and get the job done?**  If the customer faces any issue with the system he can report it in the settings and after receiving the report the authorities will the send an email to the customer regarding their response. | **Focus on J&P, tap int C** |
| **Identify strong TR & EM** | **3. TRIGGERS TR**  **What triggers customers to act? i.e. seeing their neighbor installing**  For example, if there is petroleum refining industry which works with hazardous gases every day and is highly prone to leakages, this IOT based gas leakage monitor could act quickly to detect the leakage and notify the customer about the leakage. | **10. YOUR SOLUTION SL**  **If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality.**  **If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behavior.**  Our solution is to effectively and quickly detect the presence of a gas leakage and notify the customer about it through a web application. It will be faster and safer way and gives the customer sufficient amount of time to think about resolving the leakage. | 1. **CHANNELS of BEHAVIOUR CH**     1. **ONLINE**   **What kind of actions do customers take online?**  If it is in online mode, the customers can make a report in the help section present in the setting option.   * 1. **OFFLINE**   **What kind of actions do customers take offline?**  If it is in offline mode, the customers can directly send a feedback either by in person to the manufacture or through phone call. | **Extract online & ofﬂine CH of BE** |
| **4. EMOTIONS: BEFORE / AFTER EM**  **How do customers feel when they face a problem or a job and afterwards?**  The customer would panic and be intimidated after detecting the leakage of a poisonous gas but it will be too late before the gas spreads throughout the facility. The best he can do is to evacuate the workers out of the facility. |

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