**Ideation Phase**

**Define the Problem Statements**

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| --- | --- |
| Date | 19 September 2022 |
| Team ID | PNT2022TMID50823 |
| Project Name | IOT smart crop protection system for agriculture |
| Maximum Marks | 2 Marks |

**Customer Problem Statement Template:**

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love.

A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you’ll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

Graphical user interface, text, application, email

Description automatically generated

**Example:**

Chart, treemap chart

Description automatically generated

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Problem Statement (PS)** | **I am (Customer)** | **I’m trying to** | **But** | **Because** | **Which makes me feel** |
| Smart crop protection system for agriculture | Sensor | main aim is to prevent the loss of crops and to protect the area from intruders and wild animals which poses a major threat to the agriculture areas.  The GSM module is used to make a call to the farmer to alert him. Therefore, the designed system is affordable and useful to the farmers. | The challenges of a smart agriculture system include the integration of these sensors and tying the sensor data to the analytics driving automation and response activities. | So to surmount this issue an automated perspicacious crop aegis system is proposed utilizing Internet of Things (IOT).  The system consists of esp8266 (nodeMCU), soil moisture sensor, dihydrogen monoxide sensor, GPRS and GSM module, servo motor, dihydrogen monoxide pump, etc. to obtain the required output. | challenges of a smart agriculture system include the integration of these sensors and tying the sensor data to the analytics driving automation and response activities.    Other significant barriers include startup capital, limited experience with farming, lack of knowledge about business planning, discrimination, student loans, access to markets, affordable housing, affordable healthcare, labor, climate change, farm policies, and need for off-farm income. |