Project Design Phase-I - Solution Fit

Date:26 October 2022

Team ID: PNT2022TMID40891

1. CUSTOMER SEGMENT(S)	6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES CL	5. AVAILABLE SOLUTIONS PLUSES & MINUSES
Our customers are farmers who are affected by damage of crops due to various reasons like insect attacks, animal invasion, Excess water flow, etc.	Customer must have minimum knowledge about using the technology.	Complete control and elimination of yield-threatening weeds Protection from diseases for healthier farm outp Protection from insects for high yields and quality
2. PROBLEMS / PAINS + ITS FREQUENCY PR	9. PROBLEM ROOT / CAUSE RC	7. BEHAVIOR + ITS INTENSITY
Major problems farmers face is crops being damaged by insects, animals, water and various climatic changes.	Sense the animals and insects in the crop field. Sense the water required for the crop. Sense the required climate for the crop.	Crop protector informs customer about the cr from being damaged by insect, animal, exce water flow, climatic changes,etc.
3. TRIGGERS TO ACT	10. YOUR SOLUTION SL	8. CHANNELS of BEHAVIOR
This triggers to protect the crops from insects, animals, excess water, climatic changes, unwanted plant growth etc.	The aim of the proposed work is to develop an IoT device for smart crop field monitoring system and automated irrigation system using the wireless sensor networks (WSN).To create an IoT device for monitoring	ONLINE Notifies the customer about the crops being damaged
4. EMOTIONS BEFORE / AFTER Before there is no technology to protect the crop from insects, animals, excess water, climatic changes, unwanted plant growth, etc, so many farmers committed suicides.	the crop field using sensors (soil moisture, temperature, Humidity, etc).To automate the irrigation by comparing the level of soil moisture with the threshold value.	OFFLINE Senses the crops