

Project Design Phase-I

Problem Solution Fit

Date	19 sep 2022
Team ID	PNT2022TMID44775
Project Name	IoT based smart crop protection system for agriculture

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS <div>1. Farmer doesn't need to monitor every time</div>	6. CUSTOMER LIMITATIONS <small>EG. BUDGET, DEVICES</small> CL <div> 1) High adoption costs 2) Needs uninterrupted internet connection </div>	5. AVAILABLE SOLUTIONS <small>PLUSES & MINUSES</small> AS <div>Monitor different parameters and mobile or web application make easily to farm the crop field .</div>	Explore AS, differentiate
	2. PROBLEMS / PAINS + ITS FREQUENCY PR <div> <ul style="list-style-type: none"> It is difficult to identify the damage the sensor Ain't known if the application doesn't work properly. </div>	9. PROBLEM ROOT / CAUSE RC <div>1)If temperature ,PH level ,humidity & light intensity makes the serious cause for the environment that could affect the sensor .</div>	7. BEHAVIOR + ITS INTENSITY BE <div>The customer wants to make the revolutionary propagation in the rating of the crop protection through the reliability of time efficient.</div>	
Identify strong TR & EM	3. TRIGGERS TO ACT TR <div>Spraying insecticides, pesticides help to minimize the crop damage by controlling the insects and other pests.</div>	10. YOUR SOLUTION SL <div>To solve the problem of farmer we have designed a smart farmland protection system with the help of IOT.</div>	8. CHANNELS of BEHAVIOR CH <div> ONLINE: The application sends the data to the farmers to protect their farm and to increase the yield. OFFLINE: The control action is taken by the farmers to monitor the farms. </div>	Extract online & offline CH of BE
	4. EMOTIONS <small>BEFORE / AFTER</small> EM <div> BEFORE: needs direct monitoring of farms regularly if it fails crop will be affected and reduction in the yield AFTER : Remote monitoring and increased crop protectivity and yield </div>			