Project Design Phase-I

Problem Solution Fit

Date	01 October 2022
Team ID	PNT2022TMID43619
Project Name	IoT based smart crop protection system for agriculture

OFFLINE: The control action is taken by the farmers to monitor the farms.

ONLINE: The Data send through application for the farmers to know about the farms.

Direct related: Tries to find a solution to prevent this problem

Indirect related: Located in rural where internet connectivity might not be strong enough to facilitate fast transmission speeds.

Monitor different parameters and mobile or web application make easily to farm the crop field .

"IoT based Smart crop protection system for agriculture"!!

It help farmers grow more food on less land by protection crops from pests, diseases and weeds as well as raising productivity per hectare.

1)If temperature ,PH level ,humidity & light intensity makes the serious cause for the environment.

2)Farmer affected by less productivity which will affect in their profit.

1)High adoption costs , security concerns. 2)Not aware of the implementation of IoT in agriculture.

- It's difficult to monitor and control
- Ain't known if the application doesn't work properly.

Farmer's ! Who's not near his field

Create opportunities to lift people out of poverty in developing nations. (Over 60%)

BEFORE: Finances, Heavy work overload and conflict in relationship.

AFTER: It will easier to make more yield in field

		Purpose / Vision	
CUSTOMER SEGMENT(S) to is your customer? working parents of 0-5 y.o. kids	cs	6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES What limits your customers to act when problem occurs? Spending power, budget, no cash in the pocket? Network connection? Available devices?	5. AVAILABLE SOLUTI Which solutions are available to the cu the problem? What had he/she tried in
PROBLEMS / PAINS + ITS FREQUENCY sich problem do you solve for your customer? ree could be more than one, explore different sides. existing solar solutions for private houses are not considered ood investment (1).	How often does this problem occur?	9. PROBLEM ROOT / CAUSE What is the root of every problem from the list? eg. People think that solar panels are bad investment right now, because they are too expensive (1.1), and possible changes to the law might influence the return of investment significantly and diminish the benefits (1.2).	7. BEHAVIOR + ITS INTEN What does your customer do about / a or indirectly related to the problem? eg. directly related: tries different "gree calculators in search for the best deal for 100% green provider (1.2), indirectly related: volunteering work (0
3. TRIGGERS TO ACT What triggers customer to act? e.g. seeing their neighbor installing solar panels (1.1), reading about innovative, more beautiful and efficient solution (1.2) 4. EMOTIONS BEFORE / AFTER Which emotions do people feel before/after this problem is solved? Use it in your communication strategy. e.g. frustration, blocking (can't afford it) > boost, feeling smart, be an example		10. YOUR SOLUTION If you are working on existing business - write down existing solution first, fill in the canvas and check how much does it fit 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 behaviour.	8. CHANNELS of BEH ONLINE Extract channels from Behavior block OFFLINE Extract channels from Behavior block
nicer es con a con	PROBLEMS / PAINS + ITS FREQUENCY ch problem do you solve for your customer? the could be more than one, explore different sides. wisting solar solutions for private houses are not considered od investment (1). TRIGGERS TO ACT at triggers customer to act? eeing their neighbor installing solar panels (1.1), reading about wative, more beautiful and efficient solution (1.2) EMOTIONS BEFORE / AFTER che motions do people feel before/after this problem is solved?	PROBLEMS / PAINS + ITS FREQUENCY ch problem do you solve for your customer? re could be more than one, explore different sides. adsting solar solutions for private houses are not considered od investment (1). TRIGGERS TO ACT at triggers customer to act? eeing their neighbor installing solar panels (1.1), reading about variive, more beautiful and efficient solution (1.2) EMOTIONS BEFORE / AFTER ch emotions do people feel before/after this problem is solved?	PROBLEMS / PAINS + ITS FREQUENCY the problem do you solve for your customer? the could be more than one, explore different sides. wisting solar solutions for private houses are not considered and investment (1). TRIGGERS TO ACT at triggers customer to act? the importance of the problem of the problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motitions do people feel before/after this problem is solved? the motition of the problem is solved? the motitio



Designed by Daria Nepriakhina / |deaHackers.nl - we tailor ideas to customer behaviour and increase solution adoption probability.