PROJECT DESIGN PHASE-I - SOLUTION FIT TEMPLATE

PROJECT NAME: IOT BASED SMART CROP PROTECTION FOR SYSTEM AGRICULTURE

TEAM ID : PNT2022TMID26073

Define CS, fit into

1.CUSI'OMER SEGMENI'(S)

faímeís

6. CUSIOMER CONSTRAINI'S:

Lack of píopeí iíiígation facilities, píoduction machineíy, and access to institutional cíedit, difficulties píocuíing inputs and stoíing píoducts, and negative impacts of climate.

5. AVAILABLE SOLUPIONS:

System that is built foi monitoring the crop field with the help of sensors and automating the if figation system 1 he processes like pest control, fertilizing, and if figation are increasingly becoming automated, and farmers can control them remotely. 1 he use of smart Io1 sensors can maintain these processes, increasing crop production the announcement of the threshold rate will be sent to the cell number of to the websitwebsitee. The result will be generated on a catalog of the mobile of the person to take the necessary action.

2. JOBS-l'O-BE-DONE / PROBLEMS:

Cíops in the faím aíe many times devastated by the wild as well as domesticanimals and low píoductivity of cíops is one of the íeasons foí this. It is not possible to stay 24 houís in the faím to guaíd the cíops. An intelligent cíop píotection system helps the faímeís in píotecting the cíop fíom the animals and biíds which destíoy the cíop. 1° his system shall also include íemote monitoíing and contíol of pump to avoid the faímeí to visitthe faím in nighttime.

9. PROBLEM ROO1 CAUSE

Cíop invasions by animals aíe a common and seíious píoblem that causes majoí losses.

Buffaloes, pigs, goats, biíds, andfiíe have all caused damage to faím cíops in the past.

7. BEHAVIOUR:

laígely questionnaiíe-based methodology that focuses "on the motives, values and attitudes that deteímine the decision-making píocesses of individual faímeís

Explore AS, differentiate

3. 1°RIGGERS:

Without food, we could not suívive. As the píovideí of food it is a coíneístone of human existence

4. EMOLIONS: BEÏORE / AÏLER

Common faím stíessoís aíe finances, daily hassles, and lackof contíol oveí the weatheí, heavy woík oveíloads, and conflict in íelationships.

BEFORE: 1 The agricultural cycle is the annual cycle of activities related to the growth and harvest of a crop (plant). 1 These activities include loosening the soil, seeding, special watering, moving plants when they grow bigger, and harvesting, among others. Without these activities, a crop cannot be grown.

AF1 PER: After harvest, farmers might work stalks into the ground, chop them for livestock, let cattle graze them in the field of leave them completely undisturbed, allowing corn residue to cover the field.

10. YOUR SOLUPION:

System that is built foi monitoining the ciop field with the help of sensoi. I'he IOI' device is used to indicate I'he faimei by a message while someone entei into the Faim and we aie used SD caid module that helps to Stoie a specified sound to feai the animals. I'he announcement of the thieshold iate will be sent to thecell numbei oi to the website. I'he iesult will be geneiated on a catalog if the mobile of the peison to take the necessaíy action.

8.CHANNELS of BEHAVIOUR:

ONLINE: involve and engage small faímeís towoík with an online platfoím to sell theií píoducts.

OFFLINE: Faímeís sell theií píoducts diíectly to consumeís thíough seveíal outletsFaímeí-to-consumeí diíect maíketing is a way by which faímeís sell theií píoducts diíectly to consumeís