PROJECT DESIGN PHASE-I - SOLUTION FIT TEMPLATE

PROJECT NAME : IOT BASED SMART CROP PROTECTION FOR SYSTEM AGRICULTURE

TEAM ID **:** PNT2022TMID22100

Define CS, fit into CC

1.CUSl'OMER SEGMENl'(S)

faímeís

6. CUSl'OMER CONSl'RAINl'S:

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

5. AVAILABLE SOLUl'IONS:

System that is built foí monitoíing the cíop field with the help of sensoís and automatingthe iííigation system l'he píocesses like pest contíol, feítilizing, and iííigation aíe incíeasingly becoming automated, and faímeís can contíol them íemotely. l'he use of smaít Iol' sensoís can maintain these píocesses, incíeasing cíop píoduction the announcement of the thíeshold íate will be sent to the cell numbeí oí to the websitwebsitee. l'he íesult will be geneíated on a catalog of the mobile of the peíson to take the necessaíy action.

Explore AS, differentiate

Focus on J&P, tap into BE, understand R

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.l'his system shall also include íemote monitoíing and contíol of pump to avoid the faímeí to visitthe faím in nighttime.

9. PROBLEM ROOl' 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

Focus on J&P, tap into BE, un

3. TRIGGERS:

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

4. EMOTIONS: BEFORE / AFTER

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

BEFORE: The agíicultuíal cycle is the annual cycle of activities íelated to the gíowth and haívest of a cíop (plant). These activities include loosening the soil, seeding, special wateíing, moving plants when they gíow biggeí, and haívesting, among otheís. Without these activities, a cíop cannot be gíown.

AFTER: Afteí haívest, faímeís might woík stalks into the gíound, chop them foí livestock, let cattle gíaze them in thefield oí leave them completely undistuíbed, allowing coín íesidue to coveí the field.

10. YOUR SOLUTION:

System that is built foí monitoíing the cíop field with the help of sensoí. The IOT device is used to indicate the faímeí by a message while someone enteí into the Faím and we aíe used SD caíd module that helps to Stoíe a specified sound to feaí the animals. The announcement of the thíeshold íate will be sent to thecell numbeí oí to the website. The íesult will be geneíated on a catalog if the mobile of the peíson 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