VSB Engineering College, karur - 639111

Project Design Phase-I

Problem Solution Fit

Date	01 October 2022
Team ID	PNT2022TMID33621
Project Name	SmartFarmer - IoT Enabled Smart Farming Application
Team Lead	Sunilkumar A
Team Members	Santhosh Kumar M Thulasinathan S Vibin M k

Define CS, fit into CL

1. CUSTOMER SEGMENT(S) `CS`

Farmers are monitoring in different parameters of his field like soil moisture, temperature, and humidity using some sensors.

6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES `CL`

The constraints that the customer face while using a this application is used in low cost and easy way.

5. AVAILABLE SOLUTIONS PLUSES & MINUSES `AS`

The solutions which we proposed are use of prevent crops, use of soil moisture, Temperature, humidity using some sensors.

Explore AS, differentiate

Focus on PR, tap into BE, understand RC

2. PROBLEMS / PAINS + ITS FREQUENCY `PR`

Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field.

9. PROBLEM ROOT / CAUSE `RC`

Due to the inability to predict crop production in advance in traditional method

7. BEHAVIOR + ITS INTENSITY `BE`

They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters and controlling the motor pumps from the mobile application itself.

Focus on PR, tap into BE, understand RC

Identify strong TR & EM

3. TRIGGERS TO ACT `TR`

Some of the triggers are advertisements in the television and information from the experts

4. EMOTIONS BEFORE / AFTER `EM`

With the traditional farming were depressed due to the inability to predict the disease which caused low yield but after using IOT system they are happy with the high yield

10. YOUR SOLUTION `SL`

IoT -based agriculture system helps the farmer in monitoring different parameters of his field like soil moisture , Temperature , humidity using some sensors . Farmers can monitor all the sensor parameters by using a web or mobile application even if the farmer is not near his field.

8. CHANNELS of BEHAVIOR `CH`

With help of various online channel farmers can predict and gain knowledge about the crops

OFFLINE

Through newspaper advertisements.

Extract online & offline CH of BE