Project Design Phase-I - Solution Fit

Project Title: SmartFarmer - IoT Enabled Smart Farming Application

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Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

This product is for farmer who can cultivate the crops. Our main idea is to help farmer , monitor field parmeter remotely . This product saves time for farmers.

6. CUSTOMER CONSTRAINTS CC

Using many sensor it is very difficult . An continuous internet connection is required for success.

5. AVAILABLE SOLUTIONS AS

The irrigation process is automated using Iot . All the data and field parameters were collected and process. It is efficiency only for a short distance and difficult data storage

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS J&P

The main purpose of this product is to use sensor to acquired various field parameter and process them using a central processing system . The weather API is used to help farmers make decision through mobile application

9. PROBLEM ROOT CAUSE RC

Frequent changes and unpredictable weather and climate made it difficult for farmers to engage in agriculture. Fields are difficult to monitor when the farmer is not at the field, leading to crop damage

7. BEHAVIOUR: BE

Use a proper system to overcome the effect of excess water from heavy rain Use of hybrid plants that are resistant to pests.

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

3. TRIGGERS TR

Farmers struggle to provide adequate irrigation. Inadequate water supply reduces yields and affect Farmers profit level. Farmer have a hard time predicting the weather.

4. EMOTIONS: BEFORE / AFTER EM

BEFORE :- Lack of Knowledge in weather first forecasting , then random decision , finally result will be low yield

AFTER :- Data from reliable source , then correct decision will be taken , finally result will high yield

10. YOUR SOLUTION SL

Our product collects all the data from various types of sensors and send the value to our main server. It also collect weather data from the weather API .
The final decision to irrigate the crop is made by the farmer using a mobile application.

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8.CHANNELS of BEHAVIOUR CH

8.1 ONLINE

Providing knowledge regarding the moisture level and pH of the soil and providing online assistance to the farmer. Online assistance to be provided to user in using products.

8.2 OFFLINE

Awareness camp to be conducted to teach the importance and advantage of automation and Iot in the field of agriculture.