Project Title: Fertilizers Recommendation System for Disease Prediction

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# 1. CUSTOMER SEGMENT **FARMERS**

## 6. CUSTOMER CONSTRAINTS

CC

Mobile phone

- Network connection No cost
- Basic knowledge
- Free search
- User friendly

#### 5. AVAILABLE SOLUTIONS

AS

AS, differentiate

To recommend the fertilizer for the current state of the soil.

- By calculating the pH and moisture content in
- Soil analysis to increase the crop yield.
- Based on the soil report, Fertilizer will be recommended to the user.

# 2. JOBS-TO-BE-DONE / PROBLEMS



CS

Agriculture-Importance sector in Today's life. In Agricultural aspects if plant affected by disease then it reduce the level

Disease on plants-Major constraint on production and major threat to food security.

of Agriculture.

Fertilizers- Farmers does not find the availability of where the Fertilizers stock is currently available.

Application- In agricultural aspects, there is no smart way to predict the plant disease and problem solving way by the farmers.

# 9. PROBLEM ROOT CAUSE RC

Significant increases in algae harm water quality.

Increases food resources and habitats.

Limit visibility and alter plant growth.

#### 7. BEHAVIOUR



- Soil parameters and temperature.
- Leaf wetness.
- Weather stations.
- Relative humidity.
- Due to fungus.
- Determine risky periods.

## 3. TRIGGERS



ЕМ

## **10. YOUR SOLUTION**



# CH

Seeing neighbour farmer using smart application and get inspired.

#### 4. EMOTIONS: BEFORE / AFTER



Disease- Effect on less amount of Agriculture production and compromises with quality.

Fertilizers- By using the smart application they can easily track the agro services.

Application- Used to solve a specific plant problem.

### ONLINE



- Farmers take the picture of affected plant and send it by using online applications
- Online platform shows the nearby fertilizer shop.
- Predicting the type of fertilizer to be used depending on the crop type and soil.

#### **OFFLINE**

- By the help of applications they have to use the fertilizers in correct manner
- Harvesting crops on time.

8. CHANNELS of BEHAVIOUR

#### Before:

- Spraying wrong fertilizers leads to heavy plant damage.
- During climatic change, farmers does not earn proper yield.

#### After:

- By using smart applications we get better knowledge of fertilizers.
- Easy to predict the disease.