PROJECT DESIGN PHASE - 1

PROBLEM SOLUTION FIT

DATE	10 October 2022
TEAM ID	IBM-Project-10087-1659011352
PROJECT NAME	Fertilizer Recommendation System for Disease Prediction
MAXIMUM MARK	2 Marks

1. CUSTOMER SEGMENT(S) `CS`

Farmer's are the first customers to utilise this application. Farmer;s can efiiciently use this application to get the suggestion on what fertilizer to use for the respective diseases.

6. CUSTOMER RESTRICTIONS JET, DEVICES `CL`

Availability of Good quality cameras and good network in order to process the images and suggest the fertilizer with minimum latency.

5. AVAILABLE SOLUTIONS PLUSES & MINUSES `AS`

People can identify the status of the crop by looking into the condition of the leaf.

Explore AS, differentiate

Define CS, fit into CL

2. PROBLEMS / PAINS + ITS FREQUENCY `PR`

The job to be done is to recommend the farmers on what disease the crop is affected by and what type of fertilizer is to be used to eliminate that disease.

9. PROBLEM ROOT / CAUSE `RC`

The different diseases will gradually destroy the crop and will hamper the yield of the crop and the quality of crop and the insects on the plants will affect the plants.

7. BEHAVIOR + ITS INTENSITY `BE`

Directly: Farmers can easily identify the disease that the crop is affected by, and the farmer need not require any extra knowledge to identify the type of disease.

Focus on PR, tap into BE, understand RC

Focus on PR, tap into BE, understand RC

3. TRIGGERS TO ACT `TR`

Overseeing their crops being affected by these diseases and incurring huge loss in the quantity and quantity.

10. YOUR SOLUTION `SL`

Our application will process the image and will compare with the image database to give the type of disease the plant is affected by and also recommends the fertilizer to the farmers to use.

8. CHANNELS of BEHAVIOR `CH`

ONLINE

Online: Basic knowledge on the types of crops, diseases and fertilizers.

OFFLINE

Offline: People trying to identify the disease by the quality of the leaf.

4. EMOTIONS BEFORE / AFTER `EM`

Before: Losing Self-confidence and stressed.

After: Gaining trust and using the system.

Identify strong TR & EM

Extract online & offline CH of BE