Project Design Phase-I
Problem – Solution Fit

Date	04 October 2022
Team ID	PNT2022TMID01765
Project Name	Fertilizers Recommendation System For Disease Prediction
Maximum Marks	2 Marks

1. CUSTOMER SEGMENT(S) CS

The foremost users of the application are going to be the Farmers and people interested in farming

6. CUSTOMER CONSTRAINTS CC

- Financial instability is a fundamental reason for technological improvement
- Networking capabilities may be insufficient in remote areas

5. AVAILABLE SOLUTIONS AS

- To predict the disease plant image have to be uploaded
- Some past tries of the farmer include manual detection of disease and fertilizer purchase
- Pros of the solution include fast and reliable fertilizer recommendation

2. JOBS-TO-BE-DONE / PROBLEMS

- Crops/plants get affected by insects or by any other plant disease
- Leaves/roots of the plant may get affected by its own nutrition deficiency
- Plants may also be spoiled by extreme weather conditions
- Irrespective of external conditions, irregular/dull manual maintenance can cause delays in plants
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9. PROBLEM ROOT CAUSE RC

- One of the reasons that this problem exists is because of the poor understanding of the requirements of the crop/plant
- As there is a decrease in the yield of many Indian varieties, the software system would be indispensable
- The farmers can adapt their culture to automation for the betterment of yield

7. BEHAVIOUR BE

- Farmers can use the web application functionalities like computer vision to detect the plant disease and recommend the correct fertilizer
- Thereby finding the necessary features in the application is significant

Identify strong TR & EM

3. TRIGGERS TR

Social media platforms and daily television/new or newspaper impact people mentality to upgrade into a new and easy life lifestyle of automation and seeing their neighbor using new technology, reading about a more efficient solution in the news

4. EMOTIONS: BEFORE / AFTER EM

Customers may get stressed after facing a technical error, fertilizer does not render anexpected yield or slow processing of the system

10. YOUR SOLUTION SL

Finding cause and recommending fertilizer by detecting the image instantly and displaying the nearby fertilizer shops. Recommending crops based on the soil condition

8. CHANNELS of BEHAVIOUR CH

8.1 ONLINE

- Customer can upload the image of the diseased plant and wait for the processed recommendation from the system.
- They can view the nearby fertilizer shop

8.2 OFFLINE

People may get an assistance of experienced people to know the disease and then look for homemade remedies to cure the infected plants

tract online & offline CH of BE