PROJECT DESIGN PHASE - I

PROBLEM SOLUTION FIT

Date	27 September 2022
Team ID	PNT2022TMID54027
Project Name	Estimate the crop yield using data analytics
Maximum Marks	2 Marks

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

- Farmers who needs to get a maximum and a healthy crop yield
- Persons who are interested in agriculture and cultivating new crops
- Individuals who needs to save time and maximize the yield

6. CUSTOMER CONSTRAINTS CC

- Networks and connectivity problems may arise
- Lack of Knowledge
- Lack of Awareness
- Climatic changes

5. AVAILABLE SOLUTIONS AS

- Traditional methods of farming
- Monitoring the crops using an application
- Monitoring them using a website
- Precision Farming with advanced techniques

Explore AS, differentiate

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

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

- Proper maintenance will be difficult
- Teaching them about the precision agriculture
- Collecting the efficient data
- The correct solution needs to be provided or it would lead to heavy loss

9. PROBLEM ROOT CAUSE RC

- Extreme weather conditions
- Availability of water
- Spread of any plant disease may destroy the whole yield
- Use of harmful pesticides yields to the unhealthy crop
- Protecting the field from the animals

7. BEHAVIOUR BE

- Monitoring and evaluating the crop yield
- Comparison of the traditional and the precision method of agriculture
- Trying other new techniques by themselves
- Asking help to the other similar experts
- Identify the issues in the method

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

Identify strong TR and EM

3. TRIGGERS TR

- Influenced by the farmers who prefers precision farming
- Seeing that their field didn't give the maximum yield
- Influenced by the future predictions of their crops

4. EMOTIONS: BEFORE / AFTER EM

Before:

- More work, Confusion, Fear, Doubt

After:

- Self confidence, Happy with the yield

10. YOUR SOLUTION SL

- To create an useful and an interactive dashboard which is very easy to understand by the farmers and the individuals
- To teach them about the future predictions of the crop yield and about the precision agriculture
- To take interesting attributes of the data to gain the insights which leads to the efficient decisions
- To provide the accurate solution for the maximum and a healthy crop yield

8. CHANNELS of BEHAVIOUR CH

Online:

- Search for other different techniques and compare it and check
- Checking whether this gives a good yield or not
- Seeing how many have tried it and got the good results
- Involving in the cross checking

Offline:

- Trying other different methods
- Changing their method of farming frequently
- Cultivating other different crops

Extract online and offline CH of BE