

Project Design Phase-I - Solution Fit Template

Project Title: Smart Farmer-IOT Enabled Smart Farming Application

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|------------------------|--|---|---|---------------------------|
| Define CS, fit into CC | 1. CUSTOMER SEGMENT(S) <small>CS</small> | 6. CUSTOMER CONSTRAINTS <small>CC</small> | 5. AVAILABLE SOLUTIONS <small>AS</small> | Explore AS, differentiate |
| | <p>This product is for farmer who can cultivate the crops. Our main is to help farmer.</p> | <ul style="list-style-type: none">• May have confusions on deciding the crops.• Insufficient knowledge about the soil. | <ul style="list-style-type: none">• Carrying a guidebook to everywhere we go.• Accompanying an experienced people. | |

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

- Difficulty in finding suitable crop for the soil.
- No knowledge or experience about the soil nutrients as the user is just a learner.

9. PROBLEM ROOT CAUSE **RC**

- Humans are incapable of memorising large number of datas.
- Eventhough books are available, it is difficult to identify the species.

7. BEHAVIOUR: **BE**

- Due to mismatch cropping, the field loses its fertility and heavy loss may occur.

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| <p>3. TRIGGERS TR</p> <p>During an excursion or hiking or some trip to the forest, if a nearby person uses the app, then the person also will go for a try to know about the plants and animals what they are seeing through their eyes.</p> | <p>10. YOUR SOLUTION SL</p> <ul style="list-style-type: none"> • The designed system can be an easy alternative for the lengthy laboratory process . • The designed system also takes the inputs like the geographical location, season of the year, etc to make the recommender system. | <p>8. CHANNELS of BEHAVIOUR CH</p> <p>8.1 ONLINE</p> <ul style="list-style-type: none"> • Searching through the internet to know about the soil specifications. <p>8.2 OFFLINE</p> <ul style="list-style-type: none"> • Get help from experienced people. • Carrying guide. |
| <p>4. EMOTIONS: BEFORE / AFTER EM</p> <ul style="list-style-type: none"> • At first,farmers find it difficult to choosethe crop that grows well with respect tothe nutrients present in the particular soil. • After, it becomes easy task for them to identify suitable crop for the soil. | | |