

Fertilizers Recommendation System For Disease Prediction

SCENARIO

Identifying the plant diseases and recommending fertilizers to cure it.

	Entice How does someone initially become aware of this process?	Enter What do people experience as they begin the process?	Engage In the core moments in the process, what happens?	Exit What do people typically experience as the process finishes?	Extend What happens after the experience is over?
Steps What does the person (or group) typically experience?	User can visit the webpage using the URL. RECOMMENDED FERTILIZER user can find the best fertilizer for infected plants.	UPLOAD THE IMAGE User can upload the image of infected leaf.	Based on the image uploaded, the plant disease is predicted.	RECOMMENDATION OF FERTILIZER Required fertilizers are suggested based on the disease identified	Appropriate usage of fertilizers will result in rise in the production.
Interactions What interactions do they have at each step along the way? People: Who do they see or talk to? Places: Where are they? Things: What digital touchpoints or physical objects would they use?	Application's URL and internet facilities are required Camera to take picture of the leaf and a smart device to access the app.	the user can enter the image of the infected plant It can used by all the people	User can identify the disease with which the plants are affected. Knowledge about the cause for the disease and rate of infection on the plant.	List of fertilizers which must be used to cure the disease. The correct amount of fertilizer that needs to used and steps to use it.	Healthy plants free from the disease.
Goals & motivations At each step, what is a person's primary goal or motivation? ("Help me" or "Help me avoid")	Help to find the disease of the plant Can find out best fit fertilizer for the disease	To reduce the plant disease and increase the yield To find the plant disease at the right time and take preventive measures	Help to feel confident about the plant disease and right usage of fertilizer Help me feel good about using the suitable fertilizer with less side effects and more benefits Help to get rid of the disease causing organisms with proper usage of fertilizer	Help to cure the disease and increase the growth of the crops and plants Will save the useful microorganisms with the use of organic fertilizers Help the people by getting healthy food without chemicals residue in it due to the harmful pesticide	Help the person to find the best way by providing best solution Help the farmers to make more harvest
Positive moments What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?	Detect the plant disease and can increase the yield Recommend the suitable and organic fertilizers	By using organic fertilizers the useful organisms like earthworm will not be affected	no need to spend money to detect the plant disease It helps in increasing the crop production just need a device with camera can be easily portable	Farmers would get more advantage from this due to detection of the plant disease People don't have to spend money to on taking various test to find the disease and to know the fertilizers to use	We think people like these recommendation because they have an extremely high engagement rate
Negative moments What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?	network connectivity issues camera malfunction	Wrong diagonsis of the plant disease	Sometimes may recommend harmful fertilizers which will affect the plant as well as soil Due to overuse of harmful fertilizers will leave the residue of chemicals in the food	People describe leaving a review as an arduous process Even if the problem is due to some minor issues but what they want is the right diagnosis Customers report feeling review faeling review fatigue If the detection doesn't go well then people might not get the result which will make them give bad review	Excessive or incorrect usage of fertilizer leading to poor yield or loss.
Areas of opportunity How might we make each step better? What ideas do we have? What have others suggested?	Identifying plant disease Getting recommendation for fertilizers scientifically by diagnoising the disease Provide a simpler summary about the diagnosis to reduce the complexity We can even find whether the plant is prone to disease or some external disease causing agent	Obtaining more information from the users about the geographical locations and weather conditons to get more accurate results.	Make it easier to diagnosis without much efforts like travelling, testing, spending money, etc	How we might make it clear the details about the disease and the recommended fertilizer is organic? This will be helpful for the microorganisms because of the recommendation of organic fertilizers which are not harmful It will be useful for the farmers to get rid of the external factors and save the crops.	How we might help famers and make them use the organic fertilizer and avoid the land from being barren? We can find whether the problem is internal like disease or external agents like worms, etc which affect the growth of the plant