

FERTILIZER RECOMMENDATION SYSTEM

"Farmers adding fertilizers in the soil without knowing the actual requirements of the soil."

Team Members

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DEFINE

- User interface:
We aim to achieve as user friendly interface as possible, since our end users are farmers who may not be familiar working with web technologies.
- Data collection:
Accumulating relevant data for the use of fertilisers for mapping the use of fertiliser based on the soil test.

OBJECTIVE

- To recommend appropriate fertilizer needed based on various factors such as N-P-K ration in the soil, crop type , soil type etc.
- To make it platform independent i.e. a web application

IDEATE

- How Might we?
1. Educate farmers about
 2. Obtain the appropriate data
 3. Approaching Government Agricultural Department
 4. Testing our UI

PROTOTYPE

- The prototype is a Machine Learning based model in which the user gives certain input like the percentage composition of nitrogen, potassium in the soil from the soil test report.
- Making a website fit for our purpose by making use of HTML | CSS | JS for frontend and Django for backend.

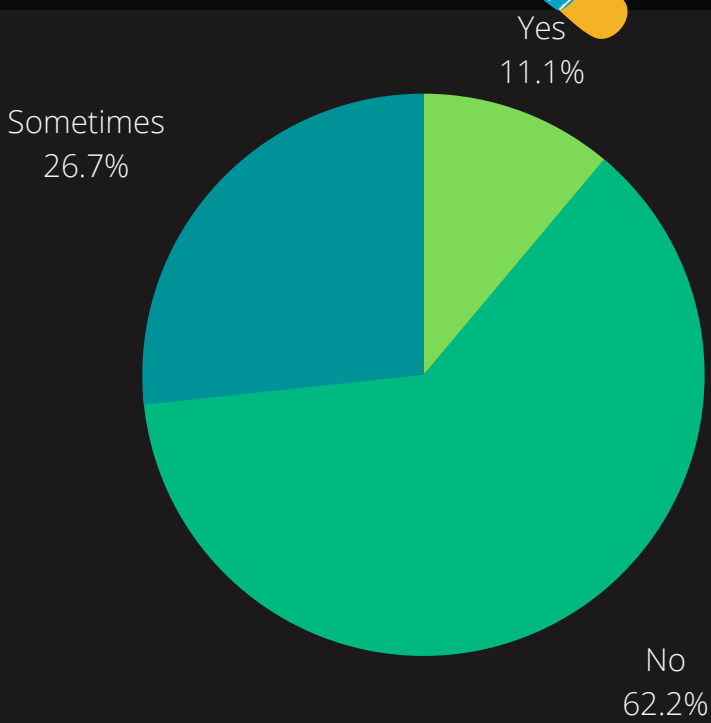
EMPATHY

The survey was conducted from the farmers on the basis of below questions:

1. Do you cultivate crops based on your soil quality?
2. Do you select fertilizers based on your soil quality?
3. Have you ever got your soil tested?
4. Which type of Technology is easily accessible to you?



Empathy Map



Do you cultivate crops based on your soil quality?

TESTING

In order to get feedback of our application with the aim of making it more user friendly, we reached out to our clients/users to test our application. We got a lot of positive reviews for our application regarding the functionalities of our website which is given in the form of QR-code beside this text.

