1

Define your problem statement

The traditional agriculture cannot meet modern agricultural need. Thus, it is very important to turn towards modernization of existing methods. The IoT-based agriculture system helps the farmer in monitoring different parameters of his feld like soil moisture, temperature, and humidity using some sensors through a web or mobile application even if the farmers are not near their feld .

⏱ 5 minutes

PROBLEM

How might we help the problems faced by the farmers?

Key rules of brainstorming

To run an smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

⏱ 10 minutes

Aparna K

- Analyzing the problems faced by the farmers
- Analyzing what kind of technology can be used
- Bringing in Technology
- Analyzing what kind of senors to be used

Akshaya R

- Farmers should be able to acheive maximum yeild
- They should be able to monitor their crops even they they are not near
- Creating a simple and efficient Farmer-Friendly tool
- Monitoring Soil Moisture
- Monitoring Humidity
- Monitoring Tempearture
- controlling Water Pumps

Harshini PR

- Choosing which language would be efficient.
- choosing Appropriate technologies
- Bringing in Sensors to make the farmer monitor the crops
- Cloud
- Python
- Fixing in Humidity Sensors
- Raspberry pi

ADITHI R

- Creating an Simple User friendly interface for the farmers (Web Or Mobile App)
- Analysing additional features which can be added
- Designing Front end and Back end

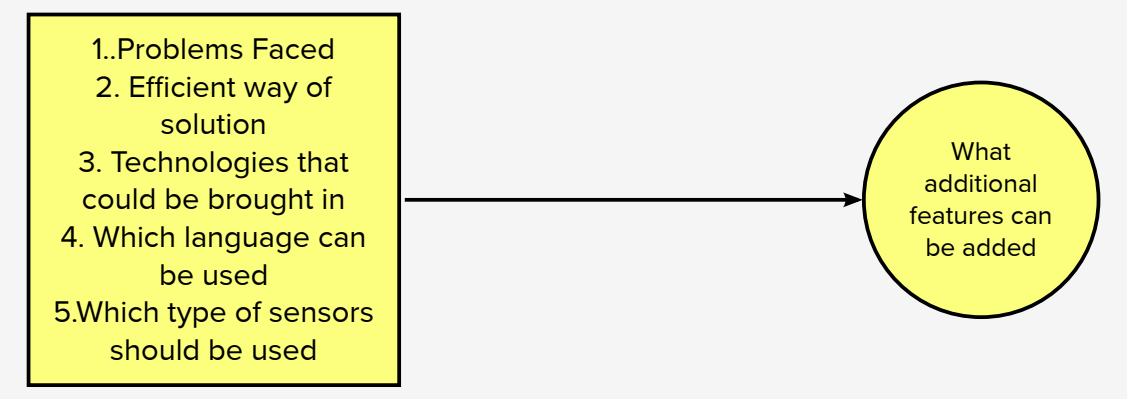
3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

⏱ 20 minutes

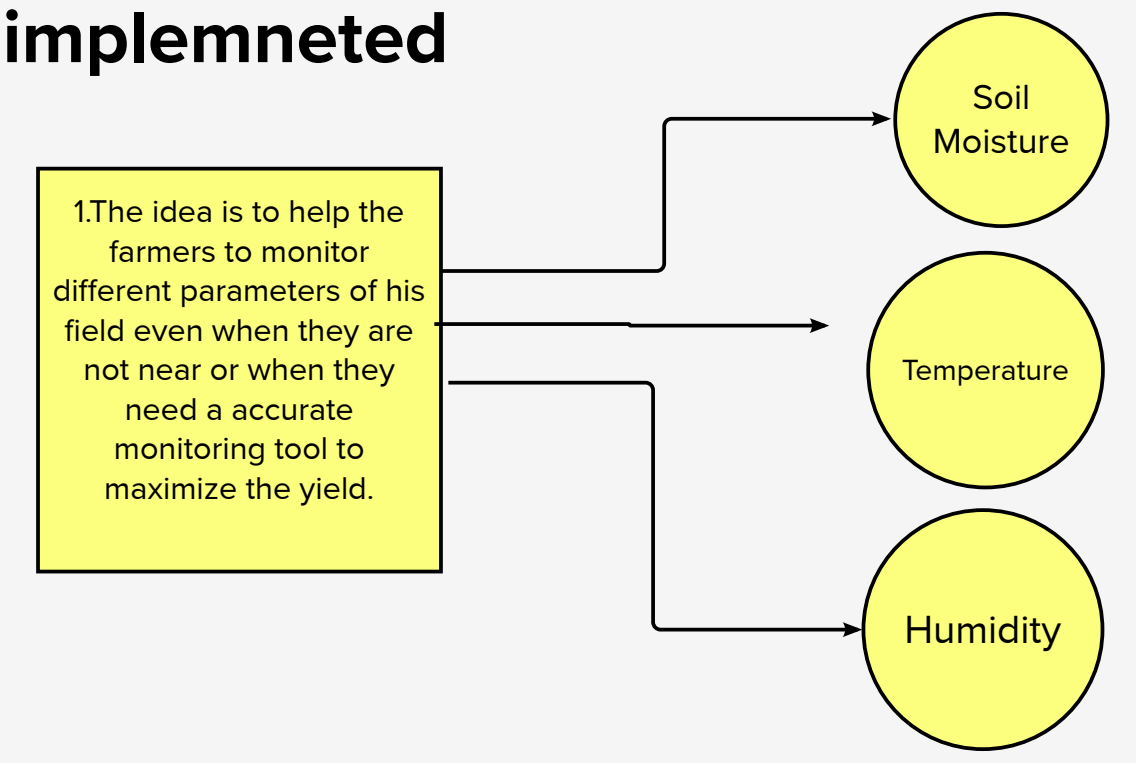
Analysing part



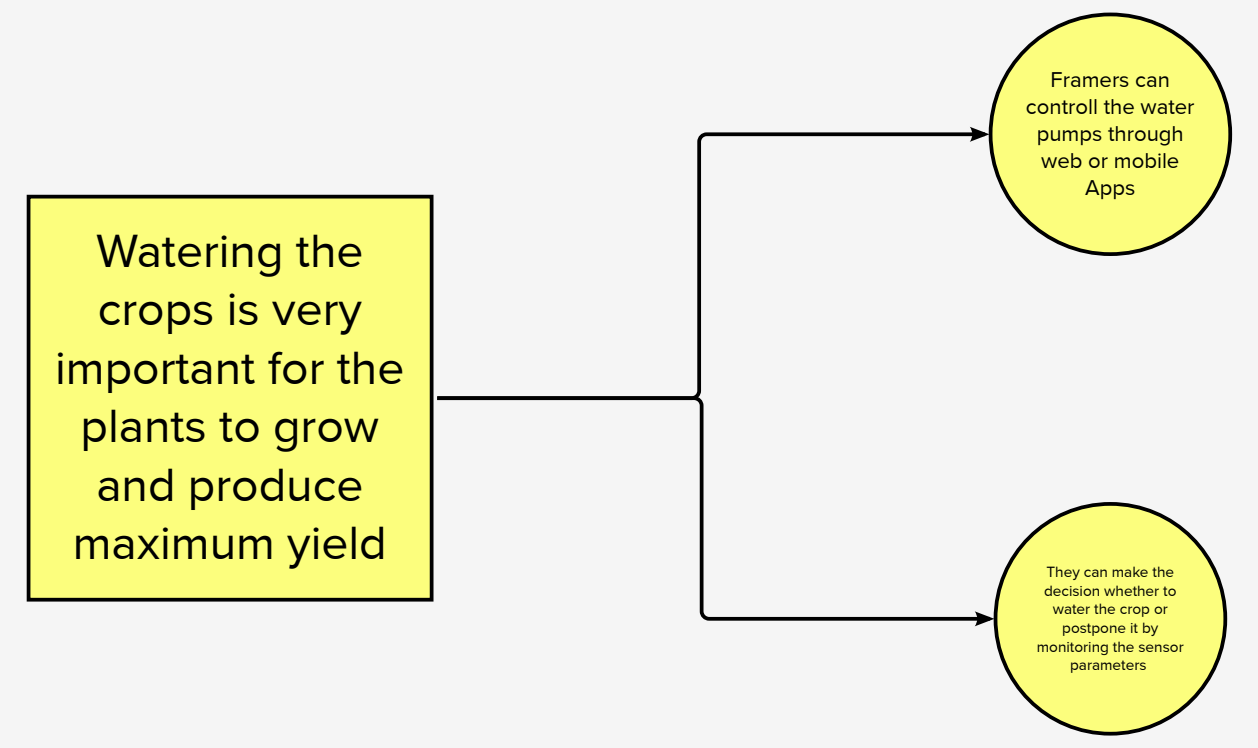
1..Problems Faced
2. Efficient way of solution
3. Technologies that could be brought in
4. Which language can be used
5.Which type of sensors should be used

What additional features can be added

Features to be implemneted



1.The idea is to help the farmers to monitor different parameters of his field even when they are not near or when they need a accurate monitoring tool to maximize the yield.



Watering the crops is very important for the plants to grow and produce maximum yield

Framers can controll the water pumps through web or mobile Apps

They can make the decision whether to water the crop or postpone it by monitoring the sensor parameters

Technologies Used

1. Python
2.Raspberry pi

Final Idea

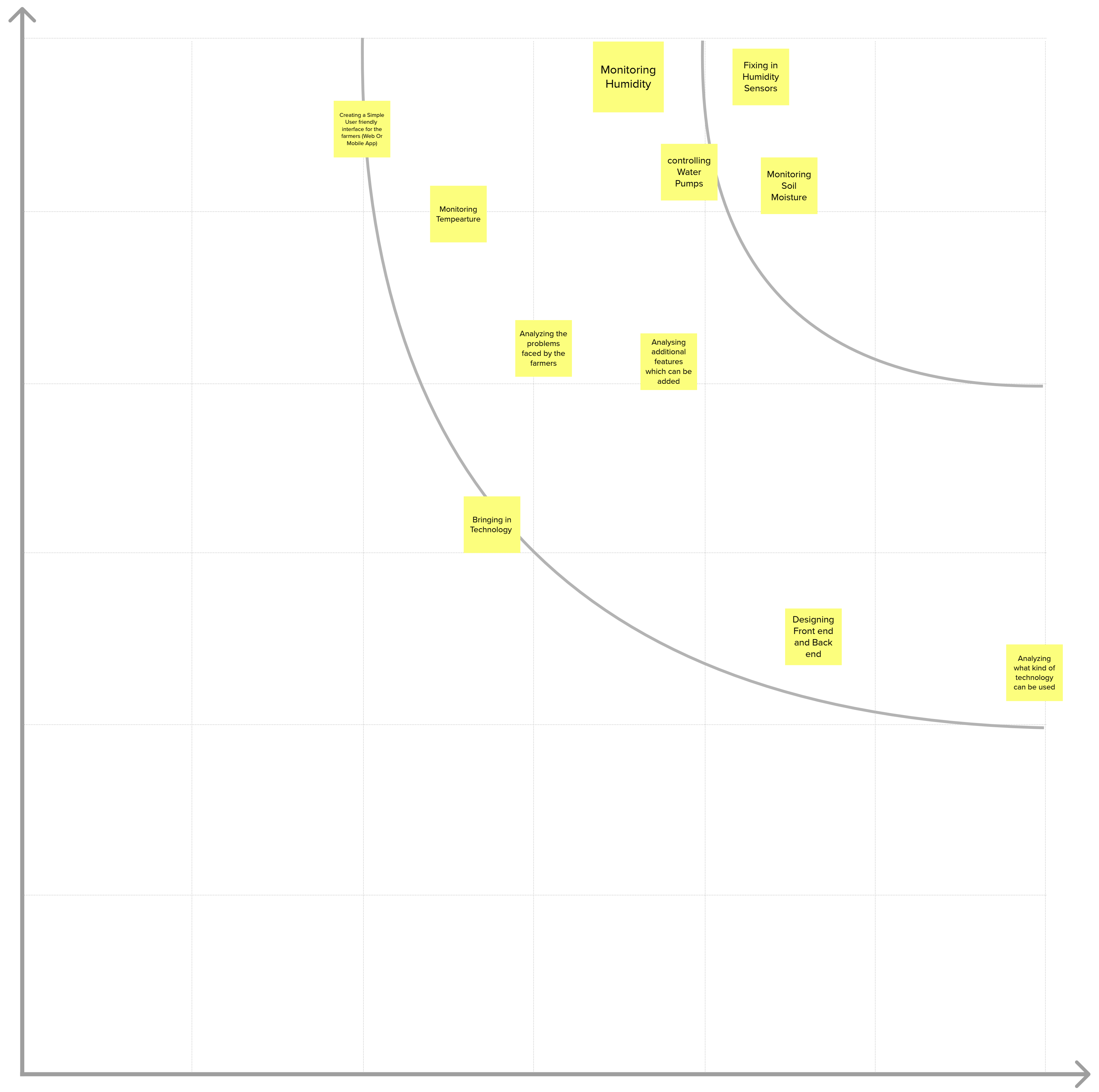
The Farmers wil be able to use the Web or Mobile Application to monitor their feilds accurately by the sensors used and can make desicion when to water the crops and what the crop needs. They can also controll the water pumps through the application which will help them when their physical presence cannot be there.

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⏱ 20 minutes



Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)