

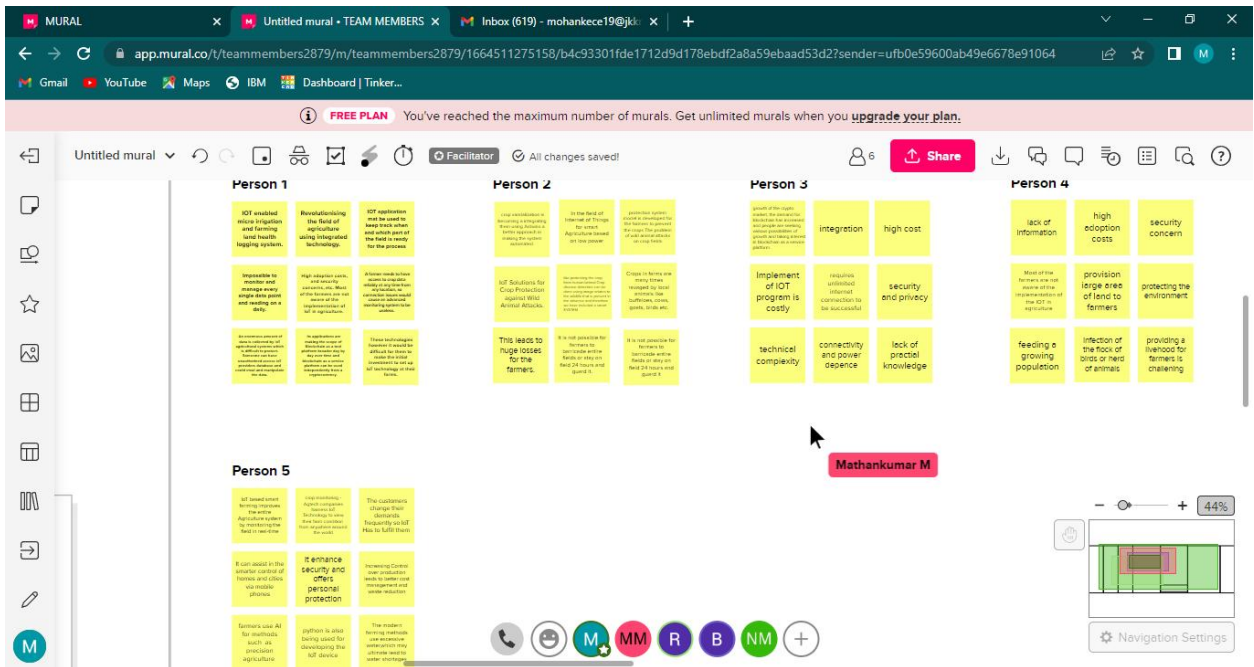
Ideation Phase

Brainstorm & Idea Prioritization Template

Team ID	PNT2022TMID44430
Project Name	IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE .

Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.



Person 1

IOT enabled micro Irrigation and farming land health logging system.

Revolutionising the field of agriculture using Integrated technology.

IOT application mat be used to keep track when and which part of the field is ready for the process

Impossible to monitor and manage every single data point and reading on a dally.

High adoption costs, and security concerns, etc. Most of the farmers are not aware of the Implementation of IoT in agriculture.

A farmer needs to have access to crop data reliably at any time from any location, so connection issues would cause an advanced monitoring system to be useless.

An enormous amount of data is collected by IoT agricultural systems which is difficult to protect. Someone can have unauthorized access IoT providers database and could steal and manipulate the data.

Its applications are making the scope of Blockchain as a tool platform broader day by day over time and blockchain as a service platform can be used independently from a cryptocurrency.

These technologies however it would be difficult for them to make the initial investment to set up IoT technology at their farms.



Person 2

crop vandalization is becoming a Integrating them using Arduino a better approach in making the system automated.

In the field of Internet of Things for smart Agriculture based on low power

protection system model is developed for the farmers to prevent the crops The problem of wild animal attacks on crop fields

IoT Solutions for Crop Protection against Wild Animal Attacks.

like protecting the crop from human/animal Crop disease detection can be done using Image relates to the wildlife that is present in the absence and therefore we have included a smart SYSTEM

Crops In farms are many times ravaged by local animals like buffaloes, cows, goats, birds etc.

This leads to huge losses for the farmers.

It is not possible for farmers to barricade entire fields or stay on field 24 hours and guard it.

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Person 3

growth of the crypto market, the demand for blockchain has increased and people are seeking various possibilities of growth and taking interest in blockchain as a service platform.

integration

high cost

Implement
of IOT
program is
costly

requires
unlimited
Internet
connection to
be successful

security
and privacy

technical
complexity

connectivity
and power
dependence

lack of
practical
knowledge

Person 4

lack of
information

high
adoption
costs

security
concern

Most of the
farmers are not
aware of the
implementation of
the IOT in
agriculture

provision
large area
of land to
farmers

protecting the
environment

feeding a
growing
population

infection of
the flock of
birds or herd
of animals

providing a
livelihood for
farmers is
challenging

Person 5

IoT based smart farming improves the entire Agriculture system by monitoring the field in real-time

crop monitoring - Agtech companies harness IoT Technology to view their farm condition from anywhere around the world

The customers change their demands frequently so IoT Has to fulfill them

It can assist in the smarter control of homes and cities via mobile phones

It enhance security and offers personal protection

Increasing Control over production leads to better cost management and waste reduction

farmers use AI for methods such as precision agriculture

python is also being used for developing the IoT device

The modern farming methods use excessive water, which may ultimate lead to water shortages