



SPICYTECH

Presented By:

Alex Varghese

Allwin Baby

Don Mathew

Kamal E J

Tojo J Kuruvila

Marian College Kuttikkanam (Autonomous)



Problem Statement

VAH_B_02 Field level identification of
pest and diseases



What every farmer want?

I(farmer) saw an unusual thing in my plant's leaf ,what is it?

- is this a disease?
- Is this because of a pest?
- Is my farming not good?
- Is this because of the climate?
- Is there any deficiency in my soil?
- Does my neighbour has the same problem?
- Where can I get remedy?
- Is this trustworthy?



Our Solution

A Complete **Mobile App** for Farmers with clean and basic UI
A **website** for Agriculture officer With an interactive Dashboard



Our Work

Lots of image processing algorithms but, but no images of **native** plants !!

So we collected images on our own.

Leaf of Black Pepper(6 diseases)

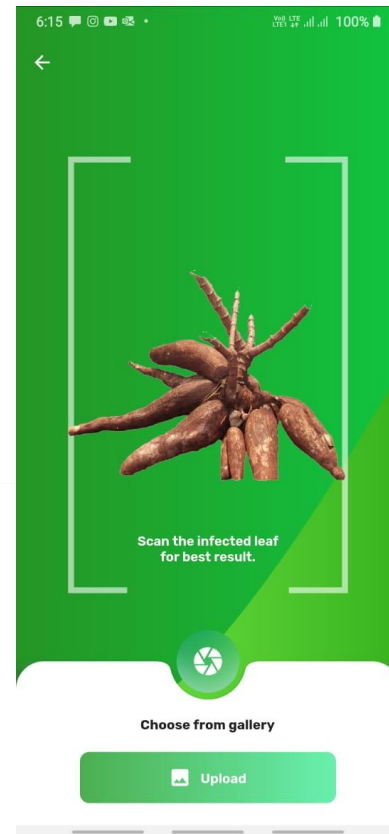
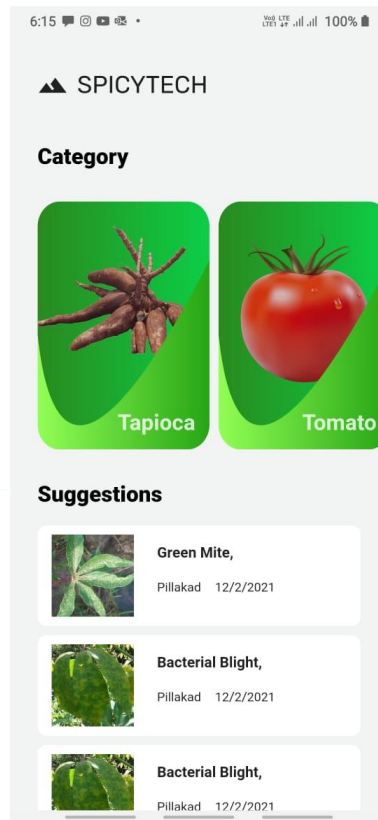
Cardamom(2)

Leaf of Tomato(9)

Beans(2)

Tapioca(2)

SPICYTECH



Result Sample



Green Mite,

📍 Saint Marys College Road

📅 12/2/2021

Treatment

* 3 Garlic plants crushed in 10L water with 7g of powdered soap.

* 500g of Onion crushed in 10L water with 2 teaspoon of Veg Oil and 7g of Soap powder.

Related Videos

<https://www.youtube.com/watch?v=8kqNiqTrZAB>

🖼️ Concern

Not sure about Result?

Raise your concern to
officers!

The image shows a mobile application interface for raising a concern. At the top, the status bar displays the time 6:17, signal strength, and 100% battery. The app title "Concern" is prominently displayed in bold black text. Below the title, a subtitle "Please fill the details" is shown. The form consists of two input fields: "Name" with a person icon and "Mobile" with a phone icon. Below these fields are two buttons: a blue "Upload files" button with a file icon and a green "Send" button with a paper plane icon. The interface is clean and modern, with a light gray background and rounded corners.

6:17 100%

Concern

Please fill the details

Name

Mobile

Upload files

Send

What agricultural officer Get?

A community platform of website for officers and Farmers

Features for Officers:

- 1.Login System for Officers
- 2.Record of each and every activity of farmers inside mobile app.
Location ,Name, Time , Phone number , Queries, Predicted output
- 3.Data is important.
data----→visualization--→information
- 3.Review and suggestion for predicted outputs
- 4.New plants and diseases addition
- 5.Approval for prediction for farmers who raised their concern

Analytics

Diseases

Concerns

Officers

All Scanned Data



Don Mathew

Agricultural Officer



Don Mathew
Agricultural Officer

Diseases

This section is to provide the available plant diseases with remedies and their suggestions.

Diseases

Add Category

Add Diseases



mosaic

Tomato

► Remedies



Green Mite,

Taploca

► Remedies



Bacterial Blight

Taploca

► Remedies



Don Mathew
Agricultural Officer

Diseases

This section is to provide the available plant diseases with remedies and their suggestions.

[Diseases](#)[Add Category](#)[Add Diseases](#)

Category Name

Upload Image

No file chosen

 SAVE DATA



Don Mathew
Agricultural Officer

Concerns

Here officers can see all the concerns send by the farmers.

Kottayam ▾

Filter

Picture	Diseases	Farmer Name	Location	Phone	Document	Action
	Mosaic	Kuttappan	Idukki	+91-9489348923	Pdf	VERIFY

Analytics

Diseases

Concerns

Officers

Officer

Informations about the officers are uploaded here.

Officers

Add Department

Add Position

Add Officers



Officer Name

Designation
Place



Don Mathew
Agricultural Officer

Additional features



Why should you buy our product?

- Simple and affordable
- Results are verified by authenticated officers
- Multi platform supporting feature (flutter)

Thanks!

