



Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:

Ministry of Micro, Small and Medium Enterprises

PS Code: SIH**1401**

Problem Statement Title:

App-Based Solution to identify and solve disease in plants/crops

Team Name: GrowGuards

Team Leader Name: Uzzma Saiyed

Institute Code (AISHE): C-58356

Institute Name:

Faculty of Computer Applications and IT

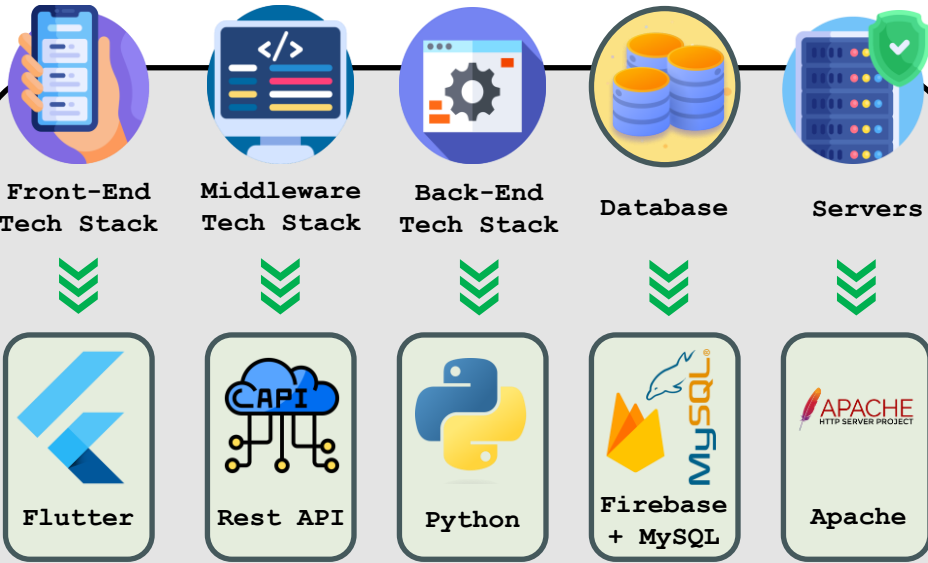
Theme Name: Agriculture, FoodTech & Rural Development

Idea/Approach Details

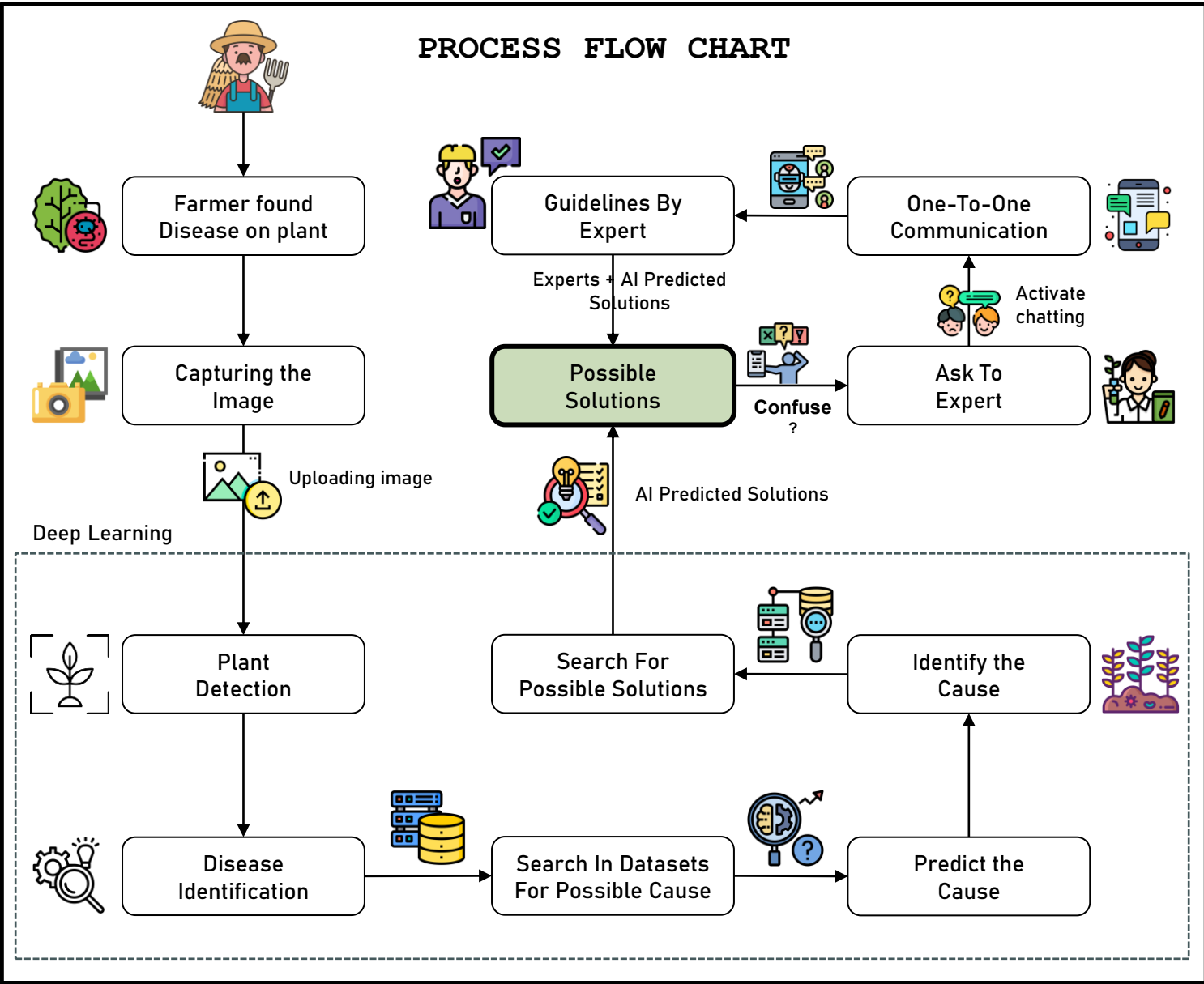
IDEA DESCRIPTION:

Farmers can use an AI-powered app to upload photos of their diseased plants. The app will identify the disease and provide recommendations for treatment. The app will also connect farmers with experts or scientists who can provide more personalized advice.

TECHNOLOGY STACK

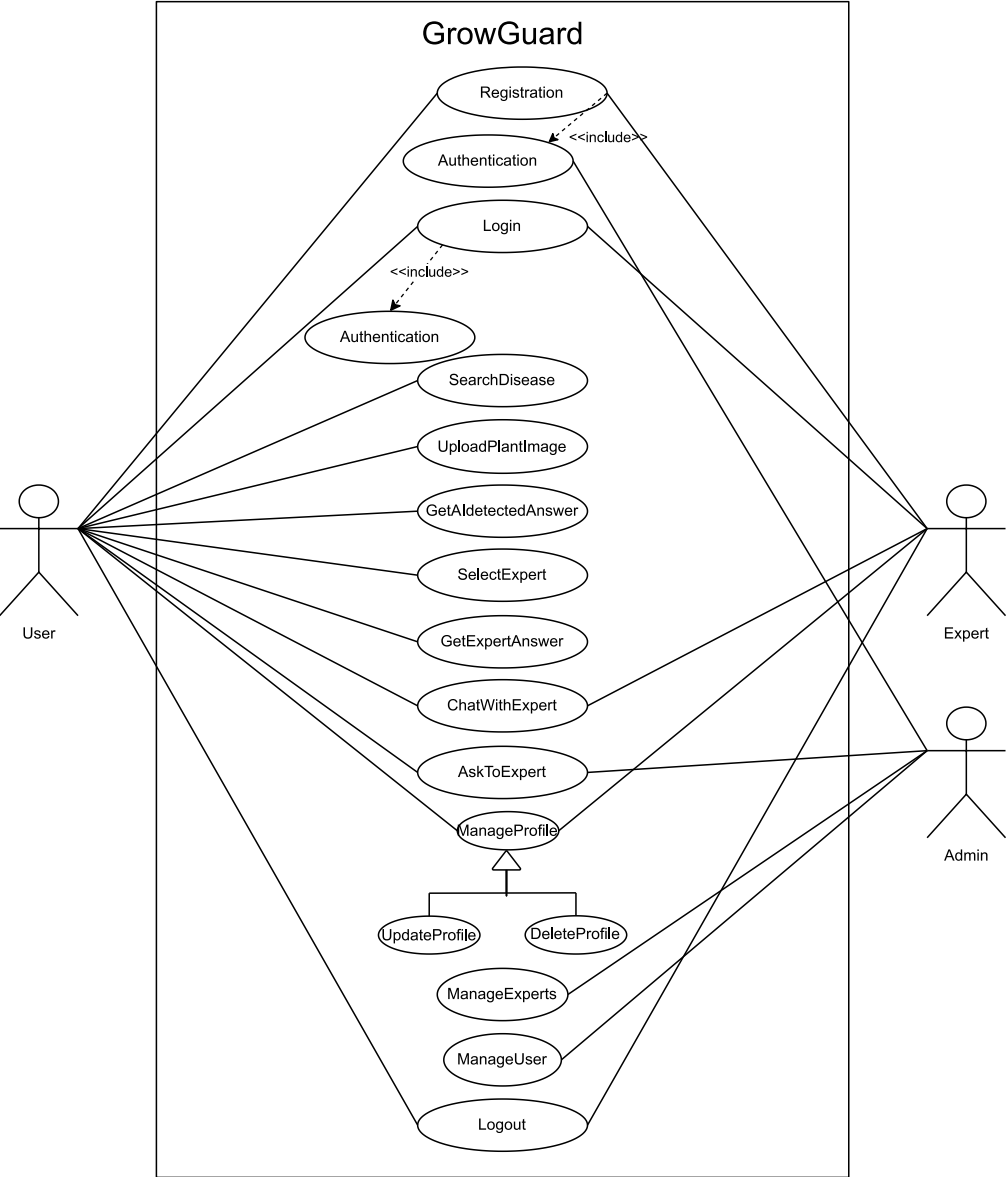


PROCESS FLOW CHART



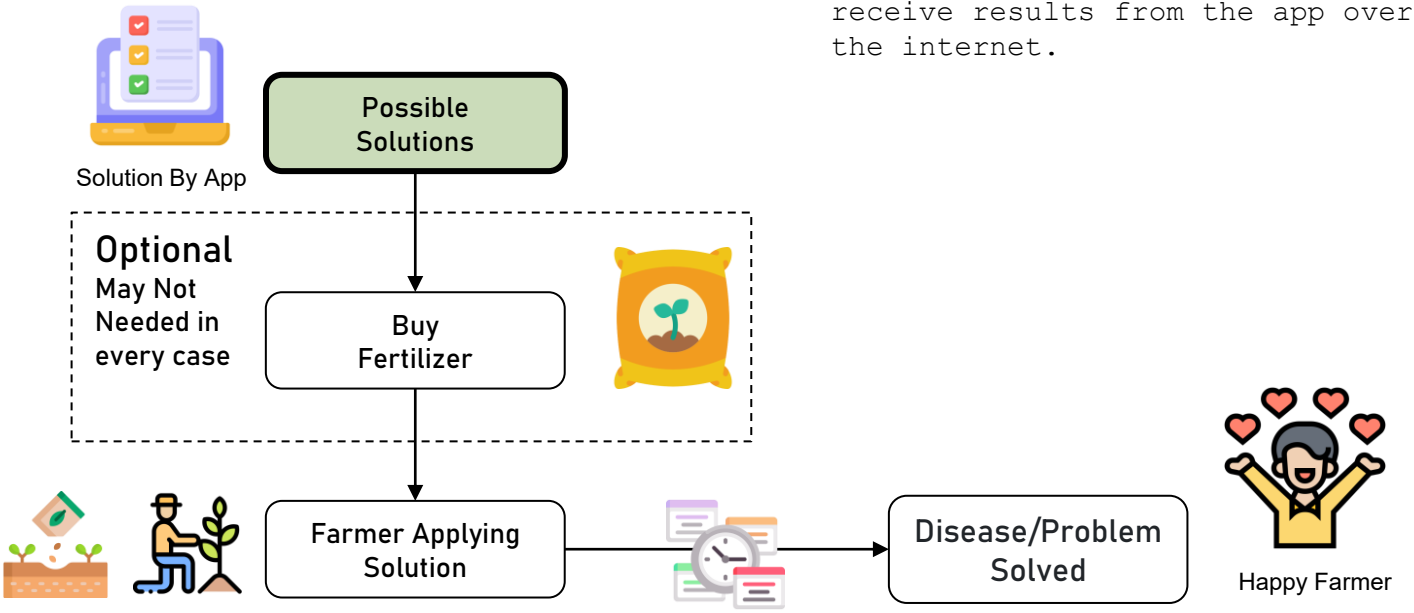
Idea/Approach Details

Use Case



SHOW STOPPER

- ✓ With this app, farmers can simply **take a photo** of a diseased plant and **upload it** to the app. The app will then use its **AI capabilities to identify the disease** and provide recommendations for treatment.
- ✓ The app also **connects farmers with experts or scientists** who can provide more personalized advice.
- ✓ It can help them save time and money, **improve their crop yields**, and ensure that their **produce is free of disease**.



Dependencies

- A large dataset of labeled plant disease images. The AI model needs to be trained on a large dataset of images of different plant diseases in order to be accurate.
- A powerful computing machine. The AI model requires a lot of computing power to train and run.
- A reliable internet connection. Farmers need to be able to upload photos of their plants and receive results from the app over the internet.

Team Member Details

Team Leader Name: UZZMA SAIYED

Msc.

Stream (ECE, CSE etc):

Year (I,II,III,IV): **I**

Team Member 1 Name: SMIT JOSHI

Msc.

Stream (ECE, CSE etc):

Year (I,II,III,IV): **I**

Team Member 2 Name: TEJASV MODI

Msc.

Stream (ECE, CSE etc):

Year (I,II,III,IV): **I.**

Team Member 3 Name: KHUSHI LODHA

Msc.

Stream (ECE, CSE etc):

Year (I,II,III,IV): **I**

Team Member 4 Name: DIGVIJAY JAKHANIYA

Msc.

Stream (ECE, CSE etc):

Year (I,II,III,IV): **I**

Team Member 5 Name: VISHVA RAVAL

Msc.

Stream (ECE, CSE etc):

Year (I,II,III,IV): **I**

Team Mentor 1 Name: PROF. RACHANA CHAUDHARI

Category : **Academic**

Expertise: **Web and Mobile Development**

Domain Experience (in years): **9**