



PLANT DISEASE IDENTIFIER

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Introduction

- Plants are very important for our environment and agriculture, but they can get diseases caused by fungi, bacteria, or viruses.
- Early detection of these diseases is crucial for healthy crop growth.
- This project helps identify common diseases in 20 plants using Python.”

Objective

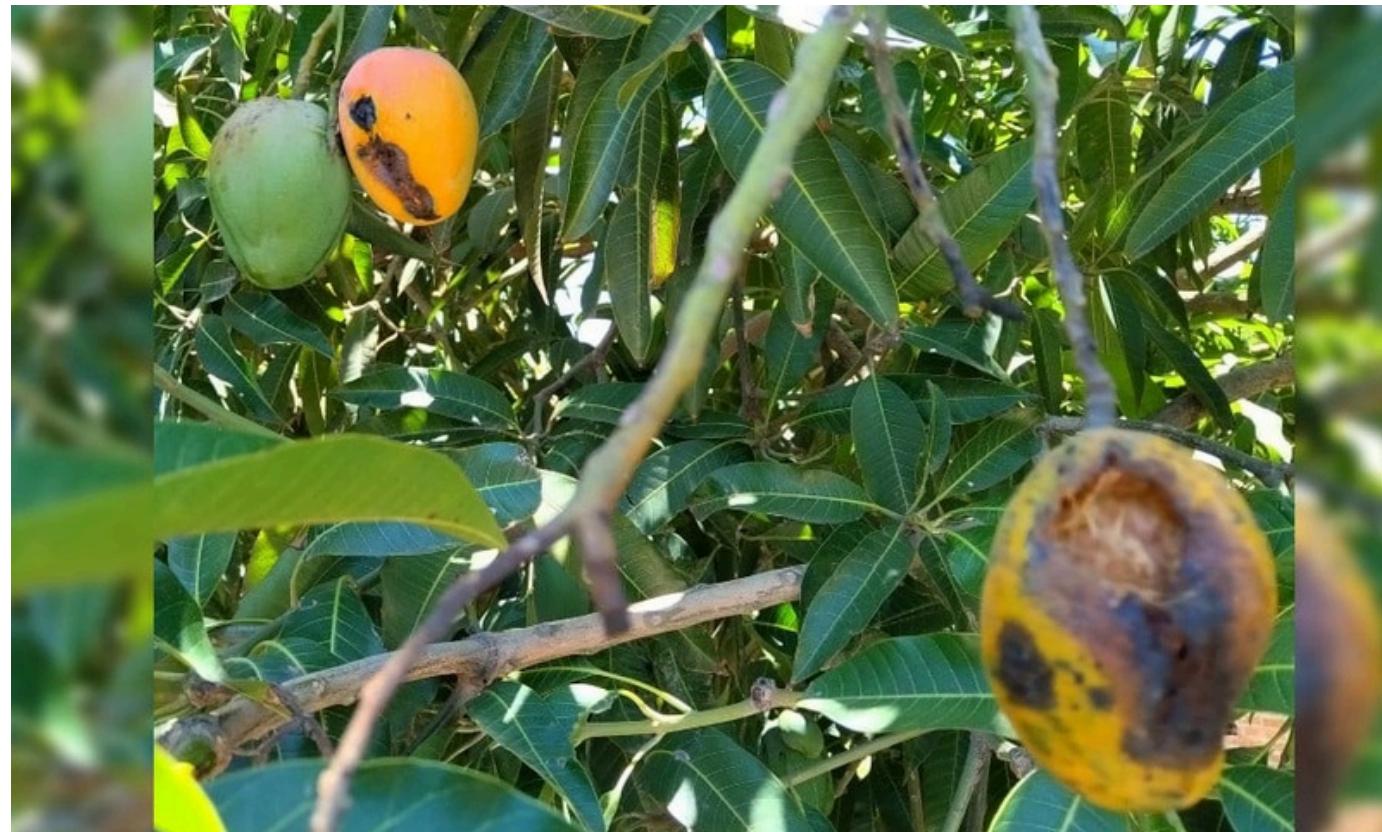
"The objectives of this project are:

- To identify common diseases in 20 plants like Tomato, Potato, Wheat, Mango, Banana, and more.
- To create a simple and beginner-friendly console-based Python program.
- To help students, beginners, and farmers identify diseases quickly. "



Program Structure

- "The program uses a dictionary to store plants and their diseases.
- It displays available plants, asks the user to enter a plant name, checks if the plant exists, and then displays the diseases if found, or a friendly message if not found."



How it Works

- Dictionary: Stores plant names as keys and their diseases as values.
- Input: User enters a plant name. `.strip().title()` ensures formatting matches dictionary keys.
- Check & Display: If the plant is in the dictionary, it shows the diseases; otherwise, it shows a “not found” message.

The flow is simple:

Start → Display Plants → User Input → Check
Dictionary → Display Diseases / Error → End. This
ensures the program is easy to use and understand.”



Sample Output

The screenshot shows a terminal window in a dark-themed IDE interface. The terminal tab is active, displaying the output of a Python script named `plant_disease_identifier.py`. The output lists available plants, prompts for a plant name, shows common diseases for Tomato, and concludes with a thank you message.

```
C: > Users > LENOVO > Desktop > python project > My Project > plant_disease_identifier.py > ...
1 # 🌱 Plant Disease Identifier
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python + ⚡ ... | ⚡ ×

Available Plants:
- Tomato
- Potato
- Wheat
- Rice
- Mango
- Banana
- Apple
- Grapes
- Orange
- Strawberry
- Cabbage
- Cauliflower
- Chili
- Cotton
- Corn
- Sunflower
- Pea
- Soybean
- Papaya
- Rose

Enter the plant name: Tomato

Common Diseases Found in Tomato:
1. Late Blight
2. Early Blight
3. Leaf Spot

Thank you for using the Plant Disease Identifier 🌱
PS C:\Users\LENOVO>
```

Bottom status bar: Ln 1, Col 1 Spaces: 4 UTF-8 CRLF () Python 3.13.7

Sample outputs

Example 1

===== Plant Disease Identifier =====

Available plants: Tomato, Potato, Wheat, Rice, Mango, Banana,
Apple, Grapes, Orange, Strawberry, Cabbage, Cauliflower

Enter the plant name: Tomato

Common diseases found in Tomato:

1. Late Blight
2. Early Blight
3. Leaf Spot





Advantages

- 🌿 Simple and easy to use – beginner-friendly console program.
- 💻 No database or internet required – works completely offline.
- 🎓 Educational – helps students learn Python concepts (dictionary, loops, input).
- 🌐 Agriculture-friendly – promotes awareness about plant health.
- 🗣 Interactive – accepts user input and shows friendly messages.
- 💼 Portable – runs on Windows, Mac, and Linux with just Python.
- ✳️ Clean output – clear and organized display of results.
- 🏆 Ideal for mini-projects and academic presentations.

Conclusion

- ✓ The Plant Disease Identifier is a simple and efficient Python mini project.
- 💡 It helps quickly identify common diseases in different plants.
- 🚀 Can be improved further with GUI or image-based detection in the future.



THANK YOU

