

User Manual for Phytora

AI-Powered Plant Disease Detection

Table of Contents

1. Introduction
2. Getting Started
 - Homepage
 - Navigation
3. Disease Detection
 - Uploading Images
 - Image Analysis Process
 - Understanding Results
4. Scan History
 - Viewing Past Scans
 - Managing Records
 - Understanding History Cards
5. Disease Information
 - Common Apple Diseases
 - Symptoms & Management
6. Additional Features
 - Mobile Responsiveness
 - Offline Access

1. Introduction

Welcome to Phytora, an AI-powered apple tree disease detection system designed to help orchardists and gardeners monitor plant health. This intuitive application uses advanced image recognition to identify common apple leaf diseases, providing early detection that can prevent crop loss and reduce treatment costs. With Phytora, you can quickly scan leaf images, receive accurate diagnoses with confidence scores, and access tailored management advice for maintaining healthy apple trees.

2. Getting Started

Homepage

- The homepage welcomes you to Phytora with a brief description of its features.
- Key sections include:
 - Hero section with quick access buttons to "Scan Now" and "View Reports"
 - Recent Scans section displaying your latest analyses
 - Quick Actions section for easy navigation

Navigation

- The header provides easy access to all sections:
 - **Home:** Return to the main dashboard
 - **Detection:** Upload and analyze leaf images
 - **History:** View all your previous scans
 - **About:** Learn more about Phytora
 - **Diseases:** Information about common apple diseases
- On mobile devices, access the menu through the hamburger icon in the top-right corner

3. Disease Detection

Uploading Images

- Navigate to the Detection page by clicking "Detection" in the header or "Scan Now" on the homepage
- Upload images in two ways:
 - Click the upload area to open your device's file browser
 - Drag and drop images directly into the designated area
- Supported formats: JPG and PNG
- You can upload up to 5 images at once
- Image preview appears after selection

Image Analysis Process

- After uploading, click the "Analyze Image" button (or "Analyze X Images" if multiple)
- The system will:
 - Process each image individually
 - Analyze leaf characteristics using advanced AI
 - Generate results with confidence scores

- Provide specific treatment advice
- A progress indicator shows the status during analysis

Understanding Results

- Results display in a tabbed interface, with one tab per analyzed image
- For each result, you'll see:
 - Image preview
 - Health status (Healthy or Diseased)
 - If diseased, the specific condition detected (e.g., Apple Scab or Apple Rust)
 - Confidence score showing the AI's certainty level
 - Tailored advice for treating the identified condition
- Use the tabs to navigate between multiple results
- Options at the bottom allow you to:
 - Scan more leaves
 - View your complete scan history

4. Scan History

Viewing Past Scans

- Access your scan history by clicking "History" in the header or "View Reports" on the homepage
- The history page displays all previous scans in a grid layout
- Each scan shows:
 - Image thumbnail
 - Date and time of scan
 - Health status or disease detected
 - Confidence level

Managing Records

- Navigate between pages using the pagination controls at the bottom
- Options for managing your history:
 - Delete individual scans by clicking the trash icon on each card
 - Clear all history with the "Clear All" button
 - Return to the dashboard with "Back to Dashboard"
 - Start a new scan with "Start New Scan"

Understanding History Cards

- Each history card contains:
 - Leaf image
 - Health status indicator (colored dot: green for healthy, red for diseased)
 - Disease name (if applicable)
 - Date and time of scan
 - Confidence percentage
 - Treatment advice (if applicable)

5. Disease Information

Common Apple Diseases

- Access detailed information by clicking "Diseases" in the header
- The Diseases page features a tabbed interface showing common apple leaf conditions:
 - Apple Scab
 - Apple Rust

Symptoms & Management

For each disease, you'll find:

- **Symptoms:** Detailed list of visual indicators to watch for
- **Management:** Specific treatment options and preventative measures
- Each disease section includes:
 - Comprehensive symptom descriptions
 - Effective management strategies
 - Quick access to the leaf scanning feature

6. Additional Features

Mobile Responsiveness

- Phytora is fully responsive and works on devices of all sizes:
 - Desktop computers
 - Tablets
 - Mobile phones

- The interface automatically adjusts to provide the optimal experience for your screen size
- On smaller screens, access the menu via the hamburger icon

Offline Access

- Basic functionality is available even with limited connectivity
- Local scan history is stored on your device
- New scans require internet connection for AI analysis