

DEPLOYMENT
MENU

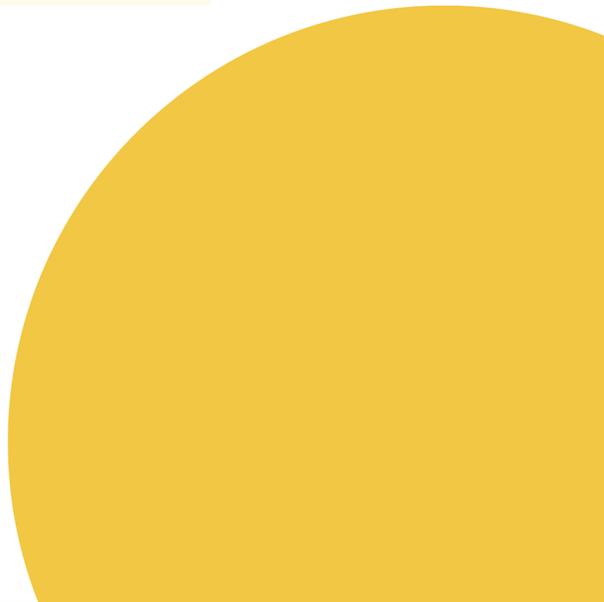


Table of Contents

Introduction

System Requirements

Installation Procedures

Cloning Git Repository

Starting the Server

Machine Learning API Deployment

Feedback and Version Information

INTRODUCTION

Welcome to the deployment manual for the Leaf

Disease Detection System, also known as "Eco Scan". This document provides a step-by-step guide for successfully deploying our software in your environment. It is intended for developers, advanced users, and system administrators.

In this manual, we will cover the following topics:

System Requirements - hardware and software requirements:

- Installation Procedures - step-by-step guide to install the software
- Troubleshooting - common errors and issues that may arise
- Support and Resources - links to related resources for better understanding our stack



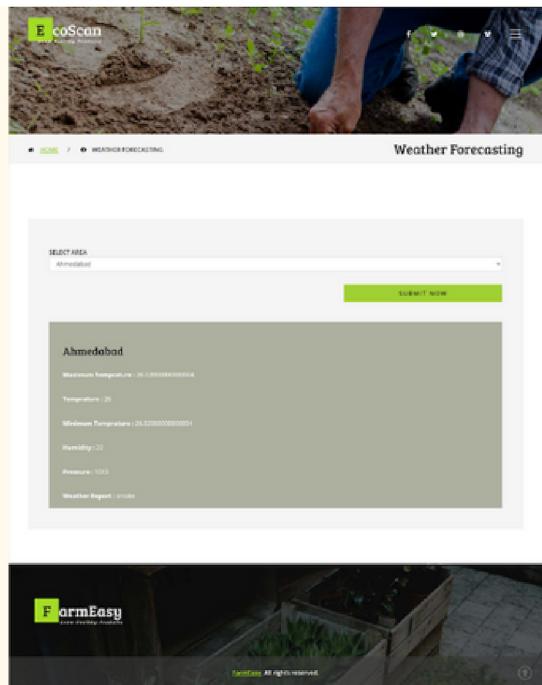
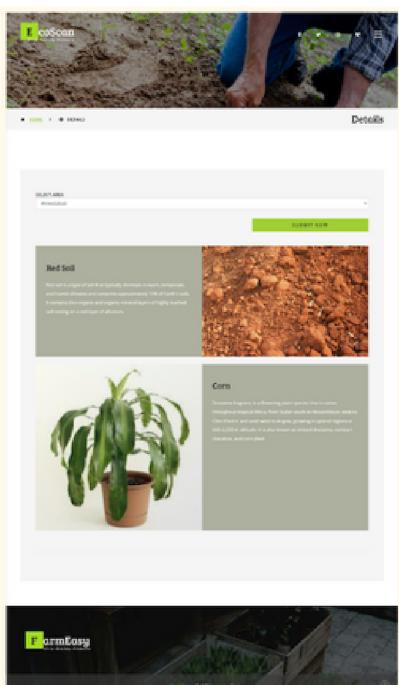
SYSTEM REQUIREMENTS

Hardware Requirements (Desktop)

- Processor (CPU): Equivalent to AMD Ryzen 3 2.4Ghz (4-core) / Intel Core i3 2.6Ghz (4-core)
- Memory (RAM): Minimum 8 GB DDR4
- Storage: 10 GB SSD space for optimal performance
- GPU: Intel Iris Xe / Radeon Graphics
- Screen Resolution: 1920 x 1080
- Network Connectivity: Minimum download speed of 10 Mbps

Software Requirements (Desktop)

- Operating System: Windows 10/11, macOS Big Sur or later, Ubuntu 20.04 LTS or later
- Web Browser: Google Chrome, Mozilla Firefox, Microsoft Edge (latest versions)



INSTALLATION PROCEDURES

1. Install Visual Studio Code (VS Code)

- Download VS Code from <https://code.visualstudio.com/>
- Run the installer and follow the on-screen instructions
- Launch VS Code from the application menu or desktop shortcut

2. Install Node.js and npm

- Download Node.js LTS version from <https://nodejs.org/>
- Run the installer with default settings
- Verify installation by running node -v and npm -v in the terminal

Cloning Git Repository

1. Open a terminal or command prompt

2. Navigate to the directory where you want to clone the repository

3. Run the following command:

`https://github.com/EcoScanTeam/LeafDiseaseDetection.git`

Change into the cloned repository directory

Login

Username:

Password:

Not registered yet? [Register here](#)

Register

Username:

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation:

Enter the same

password as before, for verification.

Already a user? [Login here](#)

STARTING THE SERVER

1. Open a new terminal in VS Code
2. Run npm install to install dependencies
3. Run npm start to start the server
4. Scan the displayed QR code with Expo Go (Android) or Camera app (iOS) to launch the app

Machine Learning API Deployment

1. Create a new web service on Render (<https://render.com/>)
2. Connect to the repository containing the detection API
3. Configure the deployment settings:
 - a. Environment: Python 3
 - b. Build Command: pip install -r requirements.txt
 - c. Start Command: uvicorn model_API:app --host 0.0.0.0 --port 10000
4. Deploy the web service and monitor the deployment process in the Logs

FEEDBACK & VERSION INFORMATION

Version: 1.0 Release Date: May 1, 2024

We value your feedback for improving the deployment process and the Leaf Disease Detection System. Please share your thoughts, suggestions, or report any issues encountered during deployment.

Contact: support@ecoscan.com