

Android Application to Detect Plant Disease and Pest

Developed By

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Table of Contents

- Introduction
- Features
- Project Structure
- Technologies Used
- System Requirements
- User Guide
- Visual Overview
- Conclusion

Introduction

The Plant Disease and Pest Detection Mobile Application is an user-friendly tool designed to help farmers, gardeners, and plant enthusiasts identify and diagnose plant diseases and pest quickly and accurately. Leveraging the power of machine learning and image processing, the application analyzes images of plant leaves captured through the device's camera or uploaded from the gallery.

Features

- Image Capture
- Image Upload
- Real-Time Diagnosis
- Disease Identification and Pest Detection
- Educational Resources
- User-Friendly Interface

Project Structure

- App Module
 - Manifest
 - Resource
 - Java
 - ML Model
- Gradle Files

Technologies Used

- Java
- XML
- TensorFlow Lite
- Android Studio

System Requirements

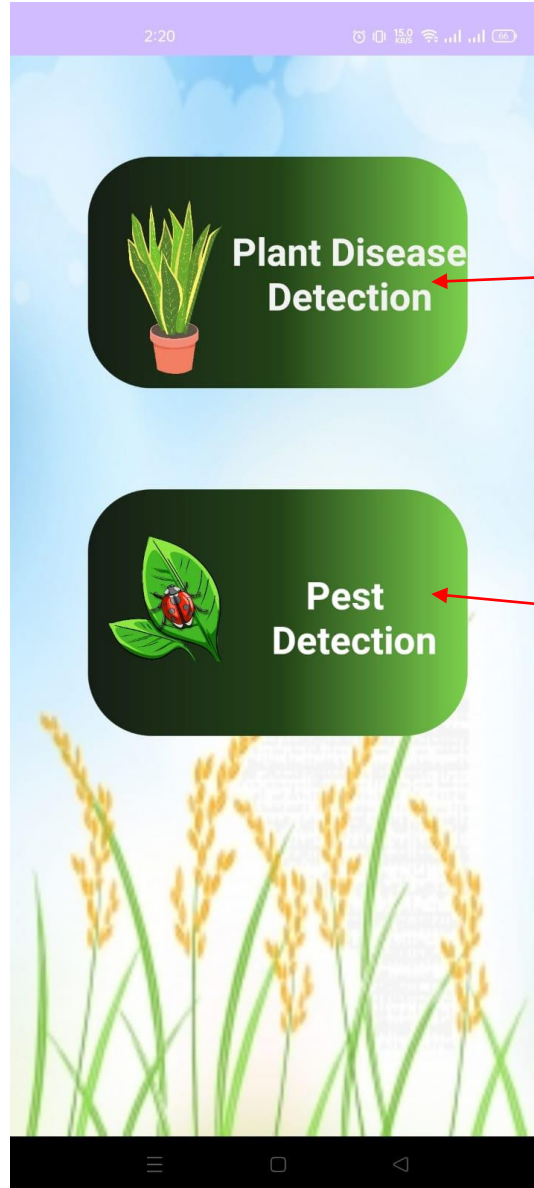
- Android OS version 6.0 (Marshmallow) and above.
- Camera access permission for capturing images.
- Internet connectivity for accessing additional resources and updates.

User Guide (Steps)

1. Install and open the application on your android device.
2. Capture a new image using the device's camera or upload an image from the gallery.
3. Once the image is selected, the application will analyze it and provide a diagnosis of any detected plant diseases.
4. Users can explore additional information about the identified disease, including symptoms and treatment options.

Visual Overview

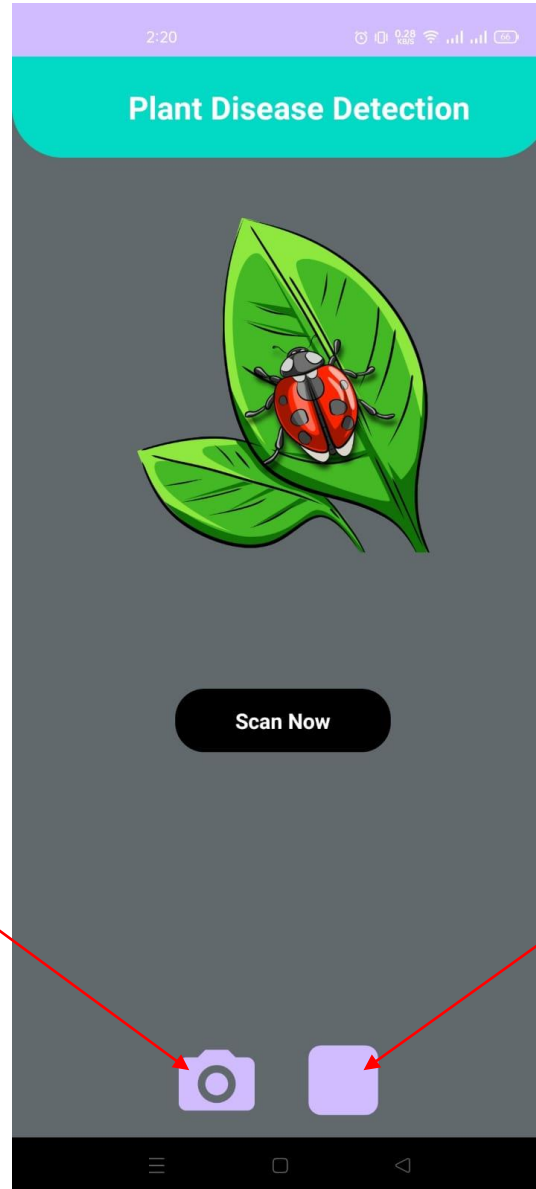
Home Page



**Click here to detect
plant disease**

Click here to detect pest

Visual Overview



Plant Disease Detection Page

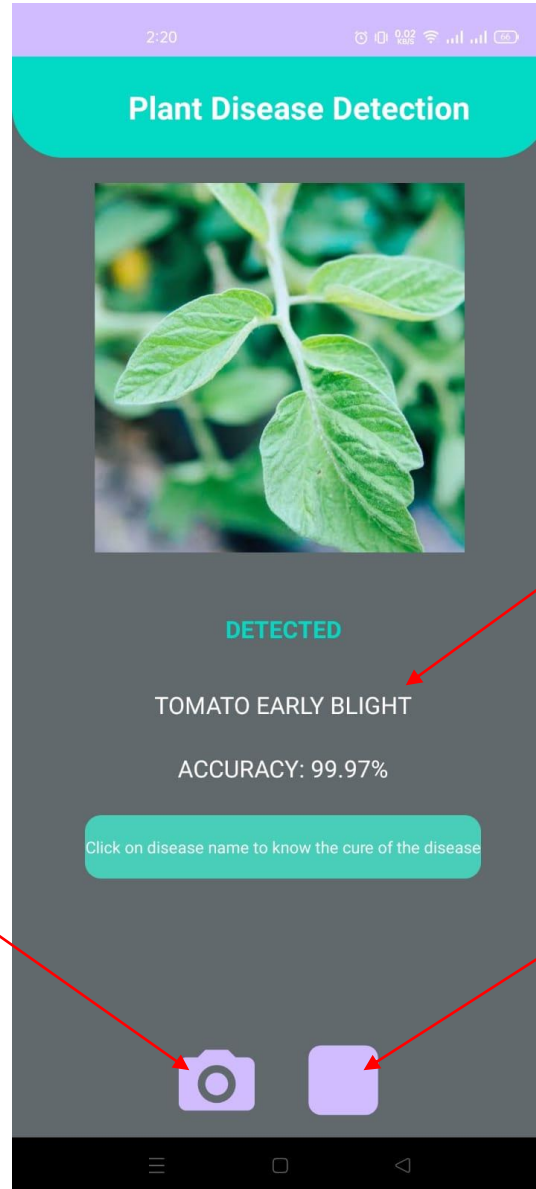
Click here to capture
image with camera

Click here to select
image from gallery

Visual Overview

Result Page

Click here to capture image with camera again



Click here to get more information about the disease

Click here to select image from gallery again

Conclusion

The Plant Disease and Pest Detection Mobile Application serves as a valuable tool for plant enthusiasts and professionals alike, offering quick and accurate diagnosis of plant diseases. With its user-friendly interface and advanced features, the application aims to empower users to effectively manage plant health and contribute to improved crop yield and agricultural practices.

ML Model Credit

Name : Anand Singh

GitHub : <https://github.com/Anand-Singh-techie>

Name : Saurabh Kumar

GitHub : <https://github.com/indskgit>

ANY
QUESTIONS!



