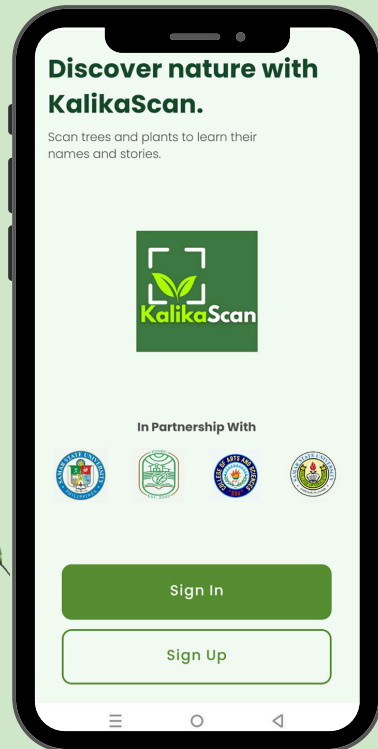




# KalikaScan

AI-Powered Plant Identification  
with Geo-Based Location Mapping

Scan. Identify. Discover. Protect Nature



“From the seed where it began,  
identify the plants with KalikaScan”

## What is KalikaScan?

KalikaScan is an innovative mobile application that uses Artificial Intelligence (AI) to instantly identify plant species through image recognition. It combines geo-tagging, cloud storage, and biodiversity mapping to support environmental conservation and research.



Your pocket companion for exploring and protecting our rich plant life.

## Why Choose KalikaScan?

- ✓ Fast and Accurate Plant Recognition
- ✓ Supports Environmental Research
- ✓ Enhances Biodiversity Documentation
- ✓ Promotes Conservation Awareness
- ✓ User-Friendly Mobile Experience
- ✓ Cloud-Based Data Storage



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## Key Features



**AI Plant Identification**  
Simply take a photo of a plant and receive instant identification results.



**Geo-Based Location Mapping**

Simply take a photo of a plant and receive instant identification results.



**Community Biodiversity Mapping**

Share and discover plant species across different locations through an interactive map.



**AI Plant Assistant**  
Ask questions about identified plants and receive intelligent responses.



**Personal Garden**  
Save your scanned plants and build your own digital plant collection.



**Plant Health Assessment**  
Detect possible plant diseases and monitor plant health.

## Who Can Use KalikaScan?



students



Faculty Members



Researchers



Environmental Personnel



Nature Enthusiasts

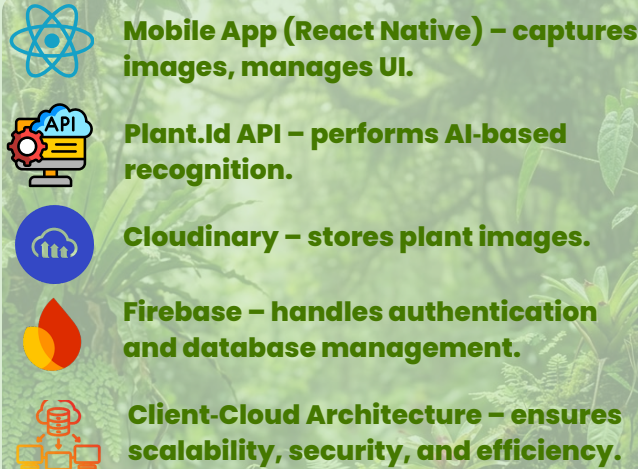
## Research Background

- Environmental monitoring increasingly depends on AI, GIS, and cloud computing.
- Traditional plant identification (manual guides, expert consultation) is time-consuming and error-prone.
- KalikaScan solves this by automating plant recognition and mapping, reducing identification time while maintaining accuracy.

## Objectives of the Study

- Environmental monitoring increasingly depends on AI, GIS, and cloud computing.
- Traditional plant identification (manual guides, expert consultation) is time-consuming and error-prone.
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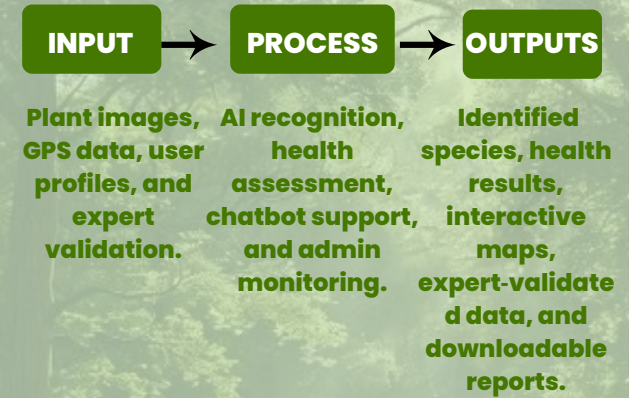
## System Architecture



## System Architecture

- Focused deployment at Samar State University.
- Requires internet connection; no offline mode.
- Works only on Android devices.
- Dependent on third-party plant database (accuracy limited to its coverage).

## Conceptual Framework



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**KalikaScan**

