

Stakeholder Analysis — Smart Agriculture Management System (SAMS)

1. Introduction

The Smart Agriculture Management System (SAMS) brings together everything happening inside a farm—zones, crops, equipment, and environmental readings—into one organized digital platform.

To make the system work effectively, two main groups interact with it: **Admins** and **Farm Owners**.

Each group uses SAMS in a different way, and understanding their needs helps ensure the system actually solves real problems.

2. Stakeholder Groups

- Admin Users
- Farm Owners

These two groups represent the core users responsible for both configuring the system and operating it daily.

3. Stakeholder Analysis

A. Admin Users

Admins are the people who set up and maintain the entire system. They decide how farms are structured, what zones exist, what crops are available, and what rules define each crop's growth stage or environmental requirements.

They keep the system clean, organized, and accurate so farm owners can rely on it.

What Admins Do

- Set up farms and divide them into zones
- Add and manage crops, seasons, and growth stages
- Define soil, temperature, and moisture requirements for each stage
- Register and maintain all equipment
- Manage users and permissions
- Review alerts and ensure everything runs smoothly

What Admins Expect

- Clear visibility of all farms and system activity
- Reliable data with no inconsistencies

- Easy tools to update crops, requirements, and equipment
- A stable system that keeps everything under control

Influence: High

Impact: High

Admins basically shape how the whole system works. If they configure things correctly, everyone else benefits.

B. Farm Owners

Farm owners use SAMS to understand what's happening inside their farms. They don't configure the system — instead, they rely on it to monitor zones, crops, and equipment readings.

They depend on timely alerts to react before a problem becomes serious.

What Farm Owners Do

- View their farms, zones, and active crops
- Assign crops to zones and track their progress
- Monitor temperature, humidity, and soil readings
- Follow alerts when something goes out of range
- Use dashboards to guide daily decisions

What Farm Owners Expect

- Simple and straightforward screens
- Accurate, real-time readings
- Alerts that are helpful and not overwhelming
- Insights that make farm management easier

Influence: Medium

Impact: High

Farm owners rely heavily on SAMS to keep their crops healthy and reduce risks.

4. Combined Needs Summary

Stakeholder What they really care about

Admin Users A well-structured, organized, and controlled platform

Stakeholder What they really care about

Farm Owners Clear, real-time information and alerts that support daily decisions

5. Influence / Interest Matrix

High Influence – High Interest

- Admin Users

Medium Influence – High Interest

- Farm Owners
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6. Summary

Admins build and maintain the structure of SAMS—they set the rules, manage the data, and ensure the system stays clean and functional.

Farm owners rely on that structure to monitor their fields, understand crop conditions, and react quickly to any issues.

Both groups depend on each other: admins provide the foundation, and farm owners bring the system to life through everyday use.