



# DSS Tools Specification Document

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FARM: Fostering Agriculture  
Rural Development and Land Management



## **Executive Summary:**

The purpose of this document is to provide a clear understanding to all partner organizations and other interested readers of the specifications of the FARM DSS tools to be developed.

**Contents**

Executive Summary: 2

1. User Requirements and System Specification 4

2. Non-Functional Requirements 7

*Usability Requirements* 7

*Responsive Design* 7

*Performance Requirements* 7

*Privacy and Security Requirements* 7



## General Information

Purpose of the DSS tools:

- Two open digital DSS tools in which individuals will be able to manage their plants, and support decision making in ARD.
- To help farmers learn more about their plants.
- To show aggregated statistical information and data on plants.
- To show reminders and alerts for different plants.
- **DSS tools design & development lead:** University of Cyprus
- **Assisted by** all partners in collecting requirements and evaluating and testing the DSS tools.

## 1. User Requirements and System Specification

#	Feature Title	Feature Description
1.	Choose Your Plants	Individual users must be able to choose and add their plants (those that interest them, or they aim to grow) to their dashboards.
2.	Learn more info about different plants	Individuals could read more about each plant, the weather it needs to grow, its watering requirements, its fertilization needs, when to cut the crops (if any), and the type of soil it needs.
3.	Set reminders	Individuals must be able to set reminders for watering and fertilization.
4.	Get reminders	Individuals will receive reminders and have the option to mark them as done, snooze or cancel them.

3.	View weather	Individuals will be able to see the weather forecasting for next week.
4	Collect information	Individuals will be able to add information regarding the watering, the fertilization, the crops, the soil, and the pruning like how many kg of crops they collected or the date and time depending of the type of information they are going to add.
5	View statistics	Individuals will be able to see statistical graphs based on the collected data, in order to assist decision making. Different parameters for the x and y axis will be available.
6	View history	Individuals will be able to view all the recorded data about the information they inserted for watering, fertilization, crops soil, and pruning.

## 2. Non-Functional Requirements

### *Usability Requirements*

A user-friendly and interactive interface must be offered to provide a better user experience and maximize the DSS tool's usability. All the features provided should be easy to use, with to-the-point keywords and descriptive instructions. All menu links and buttons must be easy to find. The design should be simple, minimal, and appropriate for the specific DSS tool's purposes.

### *Responsive Design*

The DSS tools interface and design will be responsive, in order to be able to be used by any device and any screen size, without degrading the user experience.

### *Performance Requirements*

All features should function properly without any user-perceived delays.

### *Privacy and Security Requirements*

All data collected will be processed in a manner that ensures appropriate security, including protection against unauthorized or unlawful processing and accidental loss, using appropriate technical or organizational measures. The DSS tools should be complying with the GDPR. All data shall be processed lawfully, fairly, and in a transparent manner in relation to the data subject (the individual associated with them). The DSS tools will ensure a level of security appropriate to the risk assessed as existing.