Software Requirement Specification Document

Project Title: Farm Management System

Project Scope:

The purpose of this Software Requirement Specification (SRS) document is to define the functional and non-functional requirements for the Farm Management System. The system will be used by farmers and agricultural professionals to manage their daily operations, including crop planning, financial tracking, and inventory control.

Functional Requirements:

- **Crop Planning:**
    - The system shall allow users to create and manage crop plans for different fields.
    - The system shall allow users to track the progress of crops and record yields.
    - The system shall allow users to generate reports on crop performance.
- **Financial Tracking:**
    - The system shall allow users to track income and expenses.
    - The system shall allow users to generate financial reports.
- **Inventory Control:**
    - The system shall allow users to manage inventory of supplies, such as seed, fertilizer, and pesticides.
    - The system shall allow users to track the usage of supplies and generate inventory reports.

Non-Functional Requirements:

- **Performance:**
    - The system shall be able to handle a large volume of data without compromising performance.
    - The system shall be able to generate reports quickly and efficiently.
- **Security:**
    - The system shall protect user data from unauthorized access.

- ○ The system shall comply with all relevant security regulations.
- **Usability:**
  - ○ The system shall be easy to use and navigate.
  - ○ The system shall provide clear and concise instructions.
- **Maintainability:**
  - ○ The system shall be easy to maintain and update.
  - ○ The system shall be well-documented.
  - ○ The system shall be modular to allow for easy addition of new features.

System Architecture:

The Farm Management System will be a desktop application with a GUI. The system will be installed on each user's computer and accessed through a desktop icon. The system will be developed using the Java programming programming language.

Data Model:

The Farm Management System will use a relational database to store data. The data model will be designed to support the functional requirements of the system.

User Interface:

The Farm Management System will have a user-friendly interface. The interface will be designed to be easy to use and navigate. The system will provide clear and concise instructions.

Reporting:

The Farm Management System will provide a variety of reports. The reports will be designed to help users track their operations and make informed decisions.