**Software Requirement Specification**

**Topic:** Agro Favor

**Introduction:** Our project aims to design technology-driven solutions that make agricultural inputs more affordable and accessible for all. We're developing the next generation of farmers by updating the methods and processes used throughout India, resulting in a more fruitful and lucrative industry. Agro Favor web portal will facilitate this revolution by facilitating easy, efficient access to farm supplies for both farmers and suppliers and provide hassle free way to buy or sale farm products.

**Purpose:** Agro Favor e-commerce website contains application server and web server. The web portal will be used to maintain orders of customers and facilitate suppliers to supply that orders. This software is to be used as an e-commerce farm cart.

**Scope:** Agro Favor interacts with the database to get product information & display it to customer, allows customer to add product to the cart, view order details & place an order. It also provides suppliers their respective orders, delivery details and inform suppliers about stocks of a product. Secondary information like previous orders and cart details are also stored in the database for future retrieval.

**Functional Requirement:** Agro Favor contains three classes of users namely Admin , Supplier and Customer. Detailed characteristics of these user classes and their functionalities are as follows :

1. **Admin User :**It is the super user, admin class represents complete authority over the system. It has following functionalities:

* Registers supplier.
* View the list of customers and suppliers who have successfully registered in the system.
* Deletion of the accounts of customers and suppliers.
* View the status of the pending customer orders, insufficient stock and other queries of both customers and suppliers.
* Login and logout for each session.

1. **Supplier User:** Supplier class has limited authority over the system and it can perform following functionalities:

* Lists a new product with detailed product information.
* Check list of orders on products listed by him.
* Process orders and update status of individual orders on portal.
* View and process order cancellation request and provide status of that request.
* Get inventory reports  & manage stocks.
* Get reports of sell of individual product and summary of all orders.

1. **Customer Functionality:** Customer class has least authority over the system and it can perform following functionalities:

* Login and logout for each session.
* Signup for the registration.
* Update the personal information registered during signup.
* View products and add them to the cart.
* Check/update cart, place an order and check order status.
* Give feedback about delivered product and supplier.
* Access the previous order details.

**Non-Functional Requirement:**

1. **Usability Requirement :**

The main purpose of developing the GF is to create a system  that,

* Facilitates online purchase of farm supplies
* Allows Suppliers to  list new products, process orders  and maintain inventory
* Aids Admin to intermediate between the registered suppliers & Customers and manage queries/feedback from the customers and suppliers.

1. **Performance Requirement:**

The requirements in this section provide a detailed specification of the user interaction with the software and measurements placed on the system performance.

* Effective use of colors: Usage of color coding to explicitly separate various subsections for enhanced readability and using different colour codes.
* Allowing multiple product order placement: Multiple order placement is allowed simultaneously to ease work of the customer ensuring consistency of data to be maintained effectively. This is achieved using cart functionality.
* Guiding user to enter valid data: Prevent illegal states with the usage of alert boxes to guide user to prevent entering any illegal data and thus ensuring data to be consistent as well as non-redundant.
* Providing necessary and reliable options: hide and show visibility of reliable options at various interval of time when necessary and at same time making it simple and smooth to run.

1. **Reliability Requirement:**

The reliability that the system gives the right result on an operation. Measurements obtained from 1000 searches during testing.

Must: More than 98% of the searches.

Plan: More than 99% of the searches.

Wish: 100% of the searches.

1. **Portability:**

Java openness is particularly attractive because it makes the code written in Java portable to other operating systems. From time to time, clients may decide to change their operating system, or may want to produce the same system on an additional operating system, without having to change the code written on the original operating system. For this reason, Apache—an Open Source Web server created by the Apache Software Foundation—has been ported to all the main operating systems to encourage its proliferation. This technique has worked, with Netcraft showing that Apache is the most widely used Web server by a vast margin. Thus, when a client decides to use a new operating system, none of the Java code has to change, and the Web server can stay the same. This makes changing systems so much easier.