

# E-Krushi Seva

**Document:** System Requirement Specification Document.

**Title:** E-KRUSHI SEVA

## **Objective:**

- This application is made for farmers.
- With the help of this application farmers find solution on the plant diseases. Also farmers purchase various products as per his requirements.

## **Scope:**

- The ordering process will be made simpler and more effective for farmers.
- The farmers will be able to examine their order history and may cancel their order. This service will only be accessible in India.

## **Overview:**

- Anyone can use the portal and browse the available products, but in order to make a purchase or place an order, a user needs to log in using their unique email and password. By visiting the registration page, unregistered members can do so. Roles can only be switched by admin. The default role is "User" when a user registers with the website.
- This proposed system can be used by any naïve users and it does not require any educational level, experience or technical expertise in computer field but it will be of good use if user has the good knowledge of how to operate a computer.

## **Functional Requirement:**

- This system will be accessible for the owner, their employees, registered customers, suppliers, agri – doctors.
- The owner and their employees having the all authority to use this applications functionality like registering customers, agri-doctors and suppliers.
- The users will be accessible for viewing their personal data.

Various functional modules that can be implemented by the system will be –

## **Admin:**

**Database management:** control the database and keep track of all records of farmers and employee details.

**View all details:** view the details of all employees and control the whole system.

## Employee:

**View farmer details:** View the personal details of the farmer. It can manage the registrations of the farmers.

**Managing Sales to farmers:** Responsible for properly allocating the selected product according to the farmers choice and delivering product to the farmer.

**View Product Stocks:** Keep track of each product item stocks for selling purpose.

**Contacting with Administrator about product stocks:** Responsible for informing administrator when any product items stock goes under the minimum level.

**Product Stock Management:** Responsible for managing stocks of each product items.

**Regulating Payments:** Keep track of all the payment transactions made by the farmers and update the payment information.

## Farmer:

**Registration:** New users can sign up by creating email id and password. Registered customer will be able to get help of agri-doctor for crop, soil and weather related problems.

**Login:** Only registered customers can log into the system. Farmers must have a valid login email id and password to enter into the site.

**View and edit Own Details:** Can view/edit his personal details, payment details, and details about services provided.

**Choosing and comparing products:** Can view all available products and can compare them and make a choice for purchasing products. Farmers can browse catalogues and choose products. The products have chosen can go in shopping cart. The Farmer will be able to add or remove products from shopping cart. shopping cart's contents will show up as an order when you go through the checkout procedure.

**Purchasing:** Can purchase any product through valid account. Online and cash payment is also available for farmers.

**Giving Feedback to Customer Care:** Can give feedback to the 24X7 Care Service

**Logout:** Farmer must logout of the site after purchasing products.

## Visitors:

**Visiting the Site:** Can only visit the site without registration.

**Register.**

## Agri-doctors:

**Farmer problems and solution:** Agri doctors can check the problems of the farmers. Agri- doctors helps to the farmers for solving his questions related farming. They also give proper advice for precision-farming to the farmers. With the help of our software farmer can ask his queries to the agri doctors.

## Customer Care:

**Getting Feedback from the Farmers:** Responsible for receiving complaints, queries and feedback from the customers.

**Providing Solutions to Farmers:** Provide feasible solutions to the customers on their complaints and queries.

## Non-functional Requirement:

### ➤ Performance:

- The server must be able to support an unlimited number of devices i.e., it must place no restrictions on the number of gadgets that can be used simultaneously.
- A limitless amount of active client payments must be supported by the server, and payments must never be lost.

### ➤ Security:

- Registered Farmer will be allowed to place an order.
- Sensitive data will always be transmitted with encryption. The system will internally maintain a secure communication channel between servers (web servers, application servers, database servers).
- Reliability:
- The system should be scalable, with the ability to accommodate a large number of users at once.
- The site's response time should be as quick as feasible, and it should be able to load balance the server.

### ➤ Availability:

- This application is available for 24 hrs anywhere anytime.

### ➤ Maintainability:

- A Commercial database software will be used to maintain System data Persistence.
- A readymade Web Server will be installed to host online shopping portal (Web Site) to management server capabilities.
- IT operations team will easily monitor and configure System using Administrative tools provided by Servers.
- Separate environment will be maintained for system for isolation in production, testing, and development.

### ➤ Portability:

- PDA: Portable Device Application
- System will provide portable User Interface (HTML, CSS, JS) through users will be able to access online E-Krushi portal.
- System can be deployed to single server, multi-server, to any OS, Cloud (Azure or AWS or GCP)

### ➤ Accessibility:

- After authentication, only logged-in users will be able to place an order.
- Through a personalized dashboard, the BOD team will be able to monitor daily, weekly, monthly, and annual business growth.

➤ **Efficiency:**

- System will be able to manage all transactions with isolation.

➤ **Safety:**

- The certified delivery partner should not damage the farm products or should not tamper the package.

➤ **Scalability:**

- Online Krushi portal will be secure from malicious attack.
- Online Krushi portal functionalities are protected from outside with proper configuration.
- Online Krushi portal will be always kept updated with latest antivirus software.
- Business data will be backed up periodically to ensure safety of data using incremental back up strategy.
- Role based security will be applied for Application data and operations accessibility.

➤ **Benefits:**

- The farmers saves time because he is not going to the shop.
- The farmers can order products at proper time.
- The Farmer can order product anytime anywhere.