Software Requirements Specification

for

<Plantation management System>

Version 1.0 approved

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1. **INTRODUCTION:**
   1. **Purpose:**

The purpose of this document is to mention details of the management system that what is system is assumed to do .What are the main constraints under which it Operates . What the functionalities it will implements .The document is for intended audience that user must have to know that what functionalities are being to be developed.

* 1. **Document Conventions:**

In this Document the word Marketing is used it means the company department the manages the fruits sales and purchasing .And also grade of food is used according to color and size of fruit .Such as if fruit outer quality is not good its grade is low and if it is of good quality then it is mentions is good level of grade .

Stakeholders term is used which means not only customer but all type of users who are directly or indirectly involves and have interest in project.

* 1. **Intended Audience :**

The intended audience is our developers ,software analysts ,users and testers who tests the system either it is working correctly or not.

* 1. **Product Scope:**

The System is an automated System that is used by every person who is involved in crop or plants selling or purchasing process .Also keep a records of plants sold or purchased in the report form and document .System save the selling memos or report in the repository for keeping record of yearly sales and also include a functionality of backup files .In case of system interrupt ,System have the functionality to backup all the necessary files.

* 1. **References:**

[**https://www.uccs.edu/Documents/tboult/srs.doc**](https://www.uccs.edu/Documents/tboult/srs.doc)

[**https://web.cs.dal.ca/~hawkey/3130/srs\_template-ieee.doc**](https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc)

[**https://web.cs.dal.ca/~hawkey/3130/srs\_template-ieee.doc**](https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc)

[**https://www.youtube.com/watch?v=uW5021FkdHI**](https://www.youtube.com/watch?v=uW5021FkdHI)

[**https://www.youtube.com/watch?v=Jw5GjdTfVlw**](https://www.youtube.com/watch?v=Jw5GjdTfVlw)

1. **OVERALL DESCRIPTION:**

This section refers to overall functionalities of the system .The System will show all the dependencies and Assumptions . The System will allow user /admin to store data of types sales Memos , keep records of plants , weighting tickets of plants in the database .The clerk office and the marketing department manages orders /delivery items and all the track of sales , transportation details .

**2.1- Product Perspective:**

The system relies on input of user what user want to add .And all the records are maintained into the database .When user want to access data from system then system communicate with the database .

**2.2- Product Functions:**

The management System aims to make update , deletion ,view ,addition of the data in easier form and also manages data in order to get a quality product.

* Issues delivery orders
* Manage Delivery orders
* Create sale memos
* Manage sales memos
* View sale memos
* Manage users /customers
* View /manage transportation details
* Create weighing ticket
* View weighing ticket

**2.3- User Classes and Characteristics :**

The system interface is designed user friendly that user doesn’t need any special training to learn complexities of System but needs little bit briefing that how it works if we input something what is the resultant output .The user must have basic knowledge of the computer of software devices .

User classes include ,view weighing ticket ,create weighing ticket ,create and manage all the sales memos details etc .

**2.5- Design and Implementation Constraints :**

1. The sales memo can only be created , managed but restricted for deletion the we can’t delete it only we can modify it.
2. User can execute one task at a time multiple users are not allowed to implement changes at the same time.
3. The transportation must have GPS installed , That in case of replacing they will tract path from GPS .
4. Before operating system will connected to local area network .

**2.6: Assumptions and Dependencies:**

1. It is assumed that every user has a unique id and password that no one can access his details .
2. It is assumed that all users working with in the organization where the document is to be used have basics knowledge of computer and software installation.
3. **EXTERNAL INTERFACE REQUIREMENT :**

**3.1- User Interface :**

The system manages and control the data of users in the database and keep web browsers.

**3.2 – Hardware Interface:**

Build a GPS system in transporting vehicle that records the transportation details of organization transport .This information recorded is based on plate number of vehicle carrying plants. They are link with the database to keep record of every information .

* Source
* Destination
* Duration time it takes to reach destination
* Which path has to be followed

**3.3- Software Interface :**

The software require a database to store information .For this sql software is used for backend .

The details of software are as follows which is to be used :

Database Management System:

Mnemonic : SQL

Version : 2012

**3.4-Communication Interface :**

Communication is a main part of System .It shows different parts communication with each other .Communication is important but how it is implemented it is not important .We can use FTP or HTTP for the system to communicate .

1. **SYSTEM FEATURES :**

* **Issue Delivery order :**

The management officer use this functionality to issue delivery order .This system will allow users to save and print orders .

* **Manage Delivery Orders :**

This functionality is used to edit and delete delivery orders from database.

* **Manage Transport Details :**

This functionality is used to view the transport details according to plate numbers.

* **Create Sales Memo:**

This functionality is used to keep the record of yearly / monthly sales and is also used to show it to senior management.

* **View Sales Memo :**

This memo can be view to calculate annual income that how many sales can be done.

* **Create Weighing Ticket :**

Clerk office may use this functionality to crate weighing ticket of plants and save it to database as a record.

* **Manage Users :**

Administrator use this functionality to register user ,edit and delete record of users from the database.

**5-FUNCTIONAL REQUIREMENTS :**

* The system should manage details of users in the database .
* The system should maintain record of Transportation .
* The system should create sales memos which are further viewed by the manager of measurements department.
* The show should hide details of users .

**6-NON-FUNCTIONAL REQUIREMENTS :**

**6.1-Reliability :**

This include that the system is expected to do right results on the time.

**6.2 Connection to Internet :**

In order to communicate to database the system must need strong internet connecting and doesn’t involve any third party software to affect database .

**6.3-Availability :**

The system should available full time (not considering failures /minimize network failures) .

**6.4-Serurity :**

System will provide secure connection that avoid from unauthorized access or sends notification to the real in case of unauthorized access.

**6.5- Usability** :

The system should be easy to handle and navigate in unexpected way with no delay.

**7- Other Requirements :**

**7.1: Portability :**

The software shall be easily installed at new branch of client .

**7.2: Inter –operability :**

The system should be easily understand by users and administrator and with operate with other systems also.

**7.3: Reusability :**

This system should use existing development process models during its development .

**8: APPENDIXA-GLOSSARY:**

**DO :** means delivery order

TD : Transport details

Marketing : Department of Company that keep records of sales

Grade : means level good or bad