Software Requirements Specification

for

Daud Enterprises

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Revision History

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| **Name** | **Date** | **Reason For Changes** | **Version** |
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# Introduction

## Purpose

The software is for daud enterprises which is a PVC pipe company. This software will help the owner of this company to perform all the tasks according to the needs. This system will help them to automate all the working and it will secure their business running attributes.

## Document Conventions

This document is completed on the standards of IEEE. The font of the document is Times new roman and font size is 12 and all the text is italic where the headings are having font Times, font size is 18 and there text is bold where subheading are is font times, font size 14 and the text is bold

## Intended Audience and Reading Suggestions

The different types of reader that the document is intended for are system developers, manager, testers, users and document writers. The rest of the document contain software requirements, other specifications and working of this system. The reading of this document will start with the overview section the most pertinent sections for the readers will be user manual and system features.

## Product Scope

The software will be performing some specific task which will help them to process their business in an efficient way. Some of its benefits are: receipt printing, maintaining records, providing the formulation module, intending the use of materials, allowing the user to give new order of different products. This product will help the owners to expand their production so that they can work according to their needs.

# Overall Description

## Product Perspective

This product is a new self-contained product.in this system the software will be able to solve many problems which the manual system cannot, some of the problems are: receipt printing, material control, sales invoice, profit/loss statements, making new orders, keeping the records of all incoming and outgoing products, keep the records of all the transactions made while purchasing or selling the products. This program will help them to enter the product number and making a computerize receipt with automatically generated price on it, the system will tell the user to make a new order and the quantity of that products as well by using a formula and daily productions. This system will provide the user with profit/loss statements and other reports as well based on their monthly business. The system will tell the user to order the product so that the production is not effected. It will keep the records of all incoming and outgoing products from the company. It will keep the records of all expenditures date wise.

## Product Functions

The major function of the system will be: records, transactions, products, formulations, sales, human resource management, reports. The data will flow in the following manner:

Products will be entered first, all the data of those products will be entered in the system like: date, price, company from which it is bought etc. Then those products will be processed under the formulation module and make the required product out if it. All the records of that batch of production will be entered in the system. After that the sales are recorded in the system and at the end of the month sales chart and different type of reports will be generated.

## User Classes and Characteristics

This product will be used by one persons in the company one is system user of the company. The user classes will be used by the system user to enter the records and manage all the process. Once the record is entered the system user he can edit or delete only the limited record due to some security issues. However it can be done by developers of this system. The CEO have to make sure about the working and the records entered in the system by the system user are secured or not. The most important user to this product is the system user because he have to enter all the data in it according to the production.

## Operating Environment

This products is made for office use only. It will be based on a centralize storage device in which all the data of that company will be stored. There will be a printer on which all the reports and the computerized receipt will be generated.

## Design and Implementation Constraints

The issues for the developers are: time shortage, hardware limitation. The interface of this products will be user friendly and the technology used in it will be C# and the database in which all the records will be stored will be MS SQL server.

## User Documentation

The user documentation components will be given with the software which will help the user to understand the system in more effective way. Moreover the developers will give training to the manager according to the system.

## Assumptions and Dependencies

The assumed fact that can affect the requirements is shortage of time and lack of user skills. The time shortage can be overcome by time to time up gradation of the system. The full system will depends on the records the system user will enter in the system. By those records all the system will perform the task and make reports according to the sales and expenditures. Other than this the system has no dependences on any external factor.

# External Interface Requirements

## User Interfaces

The characteristics of the system are: reports and charts which will help the user to understand the leftover products and raw material, the system will tell the user to make new orders of some raw material so that the production is not effected.

## Hardware Interfaces

The hardware components of the system will be: keyboard, mouse, screen and a CPU device through which the system user will fetch the data.

## Software Interfaces

The connection between this product and the other software connected to this will be a database system in which all the data will be saved. The database system used will be MYSQL. The messages which will be shown by this system will be an alert message which will tell them to purchase new products and it will store all the products in it.

# System Features

This template illustrates organizing the functional requirements for the product by system features, the major services provided by the product are following:

## Production inventory

In this feature we will enter all the progress of production date wise to help the user to see the daily production in the table. It contain a production ID, name of the product, quantity, date and total weight of make sure that the labor and the other management staff is working at full potential.

## Products

This feature shows all the products and their quantity present in the factory. It will show the price of each product according to its weight and it is helps the user to get the price of specific product while taking orders.

## Employees

This feature will contain all the information about the employees of the company like their id’s, name, father name, CNIC, address, contact number, designation, qualification and salary.

## Customers

In this feature all the customers should be entered in who ordered some products from the company and all the information about the customers will be entered in the customers features like id, name, address and contact numbers of that customer.

## 

## Orders

In this feature all the customers will be shown and on clicking the order of the specific customer the user have to click on customer information form the customer table and all the orders will be shown on orders table with the status. If the status of an order is delivered, all the information about that specific order will save in the sales table which will help the user to make profit and loss statements.

## Raw material

In this feature the user can update only the six of the given raw material and no other material will be entered in this table, only the existing materials quantity and purchasing price will be updated. It is because the raw material have to be linked with the formulation module.

## Formulation

In this feature the user have to put the information about the production like select the name of a product which you are going to prepare and enter the quantity. Formulation feature will enter the quantity of that product in the products table and reduce the raw material according to the formula of production provided by the company.

# Other Nonfunctional Requirements

## Performance Requirements

There are no such performance requirements for this system only the price of raw material can differ time to time and from different venders in the market.

## Security Requirements

The requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product are:

* Don’t let any unauthorized person use the system.
* In case of any failure contact the developers.
* Don’t let any other computer person solve the issues of the system.

## Software Quality Attributes

The quality attributes for this system will be availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Most of these attributes will be will explained in the documentation of the system.