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 and the manager 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.

## 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 two persons in the company one is CEO of the company and the other is the manager of that company. The user classes will be mostly used by the manager to enter the records and manage all the process. Once the record is entered the manager cannot edit or delete that record due to some security issues. However it can be done by CEO’s system. The CEO will be provided by all the reports and charts and he have to make sure about the working and the records entered in the system by the manager are secured or not. The most important user to this product is the manager 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 and two screens one for manager and the other for the CEO. 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 java and the database in which all the records will be stored.

## 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 manager 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 flow and profit loss statements, the system will tell the user to make new orders of some products so that the production is not effected. The system will hold a button name search, by which the user can search the different records.

## Hardware Interfaces

The hardware components of the system will be: keyboards, mouse, screens and a centrally connected memory device through which the manager and the CEO’s system 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:

## System Feature 1

Inventory control

### Description and Priority

In this feature the system will manager all the inventory of the company like the products coming in the production area and the material going out. This feature is of high priority because by this feature plenty of other feature will work and this system will also provide the details of material used and the material left in the storeroom.

### Stimulus/Response Sequences

The user will have to put in all the details of the products purchased like total amount of bags and weight of one bag. The system will response by adding that material in the list and it will keep the records of all the production so that the system should know that how much amount of bag are left in the production area.

### Functional Requirements

The functional requirements associated with this feature are: total number of bags and the weight of a bag. By this process the security of the material can be initiated by keeping a check on the material used in the production and the material left in the storeroom. If the number of bags are less in store then there will be something wrong. And when the material gets out of stock the system will provide an alert message to the user to order the material so that the production is not effected. If any invalid inputs are made at the management area the system will show the CEO all the inputs made at the management level and once a material is been inputted it cannot be updated of changed by the manager itself. If the manager has mistakenly inputted the wrong information he can highlight that input and when the CEO arrives at the factory the manager can tell him to make these changes because the changes will only be done by the CEO.

## System Feature 2

Receipt

### Description and Priority

In this feature the system will create receipts of the material being sold out. By this feature the user will be able to create computerize receipts and all the data will be saved in the computer system which will help the system in the processing of other features.

### Stimulus/Response Sequences

The user have to enter the material sold and then it then system will allow the user to print the receipt. Once the receipt is printed the data will be stored in the system and that data won’t be able to update by the manager.

### Functional Requirements

Function requirements of this feature is

## System Feature 3

Customer

## System Feature 4

Purchases

## System Feature 5

Payments

# Other Nonfunctional Requirements

## Performance Requirements

<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>

## Safety Requirements

<Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product’s design or use. Define any safety certifications that must be satisfied.>

## Security Requirements

<Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements. Refer to any external policies or regulations containing security issues that affect the product. Define any security or privacy certifications that must be satisfied.>

## Software Quality Attributes

<Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.>

## Business Rules

<List any operating principles about the product, such as which individuals or roles can perform which functions under specific circumstances. These are not functional requirements in themselves, but they may imply certain functional requirements to enforce the rules.>

# Other Requirements

<Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>

Appendix A: Glossary

<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.>

Appendix B: Analysis Models

<Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationship diagrams.>

Appendix C: To Be Determined List

<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they can be tracked to closure.>