Software Requirements Specification

for

ERP Development

Version 1.0 approved

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Revision History

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

## Purpose

This is an SRS for an ERP (Enterprise Resource Planning) Software. This ERP will enable the organization to use a system of integrated applications to manage their daily business activities and automate many of their back office functions related to Technology, Service and Human Relations. This report covers all the features and requirements of our system like the Interface, Features, Hardware and Software. The scope of this product is limited to the company operating this as the functions of the software will be specifically tuned the requirements of the company.

## Document Conventions

SRS – Software Requirement Specification

UI – User Interface

ERP – Enterprise Resource Planning

OS – Operating System

LAN – Local Area Network

PC – Personal Computer

## Intended Audience and Reading Suggestions

The document is written for readers from all different backgrounds. Students and professors can address this document for research and learning purposes, the employees of the respective company can refer to this document to understand the software better and learn its functions. The software developers can refer this document for better understanding of the backend of the software for future development.

## Product Scope

This software is being developed to address the following issues:

1)      Purchase of raw material

2)      Maintaining inventories and issuing to concerned departments.

3)      Maintaining sale & purchase invoices

4)      Keeping a record of finished and unfinished goods.

5)      Record keeping of workers & wages.

This will help in saving time as all the above work will be automated and saved in a system hence there will be a record of everything to refer back in the future.

## References

Wikipedia and other miscellaneous sources.

# Overall Description

## Product Perspective

This product is a new self-contained product which will be utilizing predesigned modules which will be incorporated into the product. The ERP will also have a database to store the data.

## Product Functions

Complete Inventory & Accounts

Sales and Dispatch

Purchase

Ordering

Taxes

Production

Inventory Reports

Employee Records & Wages

## User Classes and Characteristics

The product will be used by the Head of the various departments to access Employee Information, Product Inventory related data. The Managers would also be able to access the details and they’ll be given editing rights too. The Sales People and other low level staff will have access only to the purchase modules and they’ll be given rights to edit only on a need to know basis only.

## Operating Environment

The application will be web base and can be accessed on any machine running windows and having an internet connection.

## Design and Implementation Constraints

We will be using basic MySQL and other similar languages. Bits of other third party apps may be used to support the system.

## User Documentation

The documentation that’ll be delivered with the software is a small user manual that’ll briefly explain the basic functionalities and uses of the software.

## Assumptions and Dependencies

* There is internet availability at the facility.
* The computers mostly use windows based OS(s).
* The company requirements are clear and cut as conveyed.

# External Interface Requirements

## User Interfaces

The user interface is simple and easy to use. Keeping in mind the diversity of the people using it, the UI will be designed in such a way that, the company will find it very easy to explain the usage of the software using a live demo of the software in play. The Software will have various buttons and functions which will be self-explanatory. While delivering the software to the company, a demo will be organized for the Top-Level Management regarding the usage of the software and its various modules.

## Hardware Interfaces

The software will run on the local network of the company. The user needs to have a PC with Windows OS version 8.1 or higher. The work environment should have LAN cables or a Router so as to connect all the PCs on the same network. A reliable power source is a must for unhindered functioning of the software.

## Software Interfaces

This software will utilize a database to store the data. The software being developed will be composed of modules which is an open source entity. Only the admin has the rights to edit the employee details. When the manager or an admin logs into the ERP, the personal information page will greet them. This page will have all the details of the user.

The data flowing into the system is composed of information regarding the raw materials, the goods, and the other employee details. The employee details will be composed of their personal data and also information regarding their wages. The information regarding the wages will only be available to the admins.

## Communications Interfaces

The system would notify users via Email when the products are out of stock in the inventory. The wages of the employees would be communicated to them via Email, and SMS. The production of the stock and the service requirement would be notified via communication to the user. The software will communicate with the database when the data is being entered.

# System Features

The services provided by the software are as follows:

* Toggling between modules
* Ability to view the menu
* View employee details
* Edit employee details
* View info regarding raw materials
* Editing the info regarding the raw materials
* Managing the invoices of all major transactions
* Handling records of finished and unfinished goods/garments
* Keeping track of orders by adding and removing them

## Toggling between modules

4.1.1 Description and Priority

Move between the other service modules available.

4.1.2 Stimulus/Response Sequences

This feature is accessible only after the user logs on.

4.1.3 Functional Requirements

Functional requirements are as follows:

REQ1: admin login

REQ2: manager login

## Ability to view the Menu

4.2.1 Description and Priority

Viewing the menu. The user interface that’s visible after logging in.

4.2.2 Stimulus/Response Sequences

This feature is accessible only after the user logs on.

4.2.3 Functional Requirements

Functional requirements are as follows:

REQ1: admin login

REQ2: manager login

## View Employee Details

4.3.1 Description and Priority

Viewing the employee details. This is accessible to both the admins and the lower level managers.

4.3.2 Stimulus/Response Sequences

This feature is accessible only after the user logs on, and toggles to the respective module.

4.3.3 Functional Requirements

Functional requirements are as follows:

REQ1: admin login

REQ2: manager login

## View info regarding raw materials

4.4.1 Description and Priority

You can view information regarding the raw materials in stock and pending raw materials.

4.4.2 Stimulus/Response Sequences

This feature is accessible only after the user logs on, and toggles to the respective module.

4.4.3 Functional Requirements

Functional requirements are as follows:

REQ1: admin login

REQ2: manager login

REQ3: Toggle Module

## Editing the info regarding the raw materials

4.5.1 Description and Priority

You can edit the information regarding the raw materials in stock and pending raw materials.

4.5.2 Stimulus/Response Sequences

This feature is accessible only after the user logs on, and toggles to the respective module.

4.5.3 Functional Requirements

Functional requirements are as follows:

REQ1: admin login

REQ2: manager login

REQ3: Toggle Module

## Managing the invoices of all major transactions

4.6.1 Description and Priority

Keeping records of all the invoices of major transactions.

4.6.2 Stimulus/Response Sequences

This feature is accessible only after the user logs on, and toggles to the respective module.

4.6.3 Functional Requirements

Functional requirements are as follows:

REQ1: admin login

REQ2: manager login

REQ3: Toggle Module

## Handling Records of finished and unfinished goods/garments

4.7.1 Description and Priority

Adding, Deleting and Viewing the records of finished and unfinished goods/garments

4.7.2 Stimulus/Response Sequences

This feature is accessible only after the user logs on, and toggles to the respective module.

4.7.3 Functional Requirements

Functional requirements are as follows:

REQ1: admin login

REQ2: manager login

REQ3: Toggle Module

## Keeping Track of orders

4.8.1 Description and Priority

Adding and Deleting orders of the goods/garments

4.8.2 Stimulus/Response Sequences

This feature is accessible only after the user logs on, and toggles to the respective module.

4.8.3 Functional Requirements

Functional requirements are as follows:

REQ1: admin login

REQ2: manager login

REQ3: Toggle Module

# Other Nonfunctional Requirements

## Performance Requirements

The optimum working environment for the software is where all the managers and the admins can work simultaneously from different parts of the office and achieve the target.

## Safety Requirements

None what so ever.

## Security Requirements

For the privacy and security of the data, there will be specific user ids allotted to every employee and rights to vie and edit sensitive information will only be given to top level Employees only.

## 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.>