

**ERP**

Software Architecture Document

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Abstract

With the increased difficulty these days industries face to integrate their business units, ERP serves as a central solution. ERP systems are shared database which supports various functions used across different business units. It streamlines the process and information across the organization. This application developed is an ERP system which integrates warehouse and retailers. The goal of this project is to provide a single system that is able to serve different department particular needs.

The developed solution incorporates the practical system used by organizations to manage the basic commercial functions of their business, such as: Billing, inventory/materials, purchasing, sales, authenticating, generating reports, stocks etc. The system also automates the business process by continuous synchronization of changes and updates.

This can benefit the stock management module to better organize their work and optimize the solutions. In addition, it also reduces the manual work done and time taken for that. Further, it provides an integrated business processes between warehouse and retailers. This is maintained in one central database with no duplication of data.

Like a single 'view of the truth'. The advantages also extends to a powerful reporting across the whole organization.

The application works based on following functions:

* Authenticating users
* Creating / Adding Users and Dealers
* Add/ Bill Products
* Generate/ Approve PO
* Creating BRN, GRN, ORN

**Introduction**

Typically, ERP system is a common database which supports all the applications. It is an integrated system that works in real time environment, used to maintain consistency and standards across all modules.

ERP system covers various functional areas in business which are called as ERP module. In this application, it is focused on following ERP Units: Supply chain management, inventory, stock, Billing reports, operational data, service, purchase and technology.

The application is developed to optimize the huge transaction made in management trading. It bridges between warehouse and retailers. The application primarily focuses on integrating and enhancing communication amongst different departments like: sales, billing, return, goods receiving.

The primary features of this application includes a shared database which supports various functions involved in different business units. In practise, employees from different business units rely on the same information for their target needs. Also, this application aims to achieve synchronization of the reports involved in inventories and billing. The main advantage of using this application is to reduce the manual effort, which is done by automation. This minimizes the efforts of employees to fetch the data or update it manually.

The following units in ERP are interconnected in this application: New dealers, products, purchase order, billing, stock report, shop inventory. The key function includes creating BRN, ORN, GRN, debit note, credit note, stock reports and generating & approving PO´s.

**Purpose**

This software Application is developed in agile methodology to support warehouse and retailers. The main purpose of this software is to minimize the manual effort by implementing ERP and optimizing the stock management.

**Scope**

The application provides the following:

* An Effective business
* Better communication between different business units
* Integration of units
* Synchronization and automated updates
* Reduced manual efforts