

Stadia Engineering Works Consultant

Enterprise Resource Planning System(ERP)

Software Requirements Specification

Version 1.0

Revision History

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ABSTRACT

In today's fast growing of internet users and fast-changing business environment in Ethiopia, it's extremely important to be able to respond to client needs in the most effective and timely manner. Online Shopping is a lifestyle e-commerce web application, which retails various fashion and lifestyle products. The primary goal of an e-commerce site is to sell goods online. This project with developing an e-commerce website and mobile application for Online Product Sale. It provides the user with a catalog of different product available for purchase in the store, viewing various products available enables registered users to purchase desired products process payment by using Cash on Delivery(Pay Later) or Mobile Banking. In order to facilitate online purchase a shopping cart is provided to the user and delivery which is fulfilled by the express system.

Nowadays, many different kinds of delivery companies in Ethiopia transport their own kinds of parcels and offer their own services, which have caused a lot waste of resource. In addition , the volume of parcels in all cities that need to be delivered has been grown dramatically. To cope with these problems, Guya-Express System in the country which can offer service to all kinds of customers in the city including manufactures, department stores, restaurants, individual people and so forth will be designed. This system use combining computer network technology, wireless communication and cloud computing. With this system. the whole package delivery process including classification of packages, vehicle scheduling, path planning, transportation monitoring can be intellectualized as well as managed automatically, and the use of both material resources and manpower resources can be reduced accordingly.

This document will discuss each of the underlying technologies to create and implement and e-commerce and express under the name Guya E-commerce and Guya Express respectively and for architectural implementation we will be using Microservices Architecture.

Contents

Revision History	i
Abstract	ii
List of Tables	iii
List of Figures	iv
List of Abbreviations	vi
1 Introduction	1
1.1 Open ERP(Odoo)	1
1.1.1 Why choose Odoo	3
1.2 Scope	3
1.3 System Requirements	5
1.3.1 Hardware Requirements	5

List of Tables

List of Figures

1.1	Odoo server requirements	6
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Acronyms and Abbreviations

SRS	Software Requirement Specification
ERP	Enterprise Resource Planning
LB	Load balancing

Chapter 1

Introduction

ERP is one of the most widely implemented business software systems in a wide variety of industries and organizations. ERP is the acronym of Enterprise Resource Planning. ERP is just not only a software. ERP definition refers to both; ERP software and business strategies that implement ERP systems.

Our Addsoft implementation utilizes Human Resource Management System , Recruitment System, Attendance System, Leave (time off) System, Payroll System , Performance Management (Appraisal) System and Asset Management to improve the performance of any organizations for

- Resource Planning
- Management Control
- Operational Control

1.1 Open ERP(Odoo)

Odoo is a comprehensive business applications including Sales, CRM, Project management, Warehouse management, Manufacturing, Financial management, and Human Resources etc. It is an all-in-one management software that offers a range of

business applications that can form a complete suite of enterprise management applications targeting companies of all sizes. Odoo offers a community version and a commercial version. The community version is the open source free version while the enterprise version are charged at a certain cost and provides more features and services.

Odoo was published first under the name of OpenERP and TinyERP, where ERP stands for Enterprise Resource Planning. An ERP is a generic software that is flexible to any modification and customize and fulfills generic needs. Odoo is a modular system where its services are represented as modules, and the ones that are necessary come installed with the ERP and can be adapted to the workforce and growth of the company that uses the system. Odoo has a powerful process engine which allows the allocation of validation modes, tasks and deadlines. According to the ERP's official website, Odoo has 5525 module; production management, logistic, human resources, accounting, management control, payroll, customer relationship management or CRM, marketing, inventory management, documents management, etc. Odoo is used by many organizations such as Hyundai, Auchan, Sodexo, Danone, Veolia, and many others. Odoo is represented in 120 countries by more than 550 partners, and it is used by almost 2,000,000 users.

Odoo is known for a number of features such as:

- Social networking
- Website creation using CMS
- Employee assessment and evaluation
- Recruitment process

These and other features are exploited by the users to make the management of their business as organized and smooth as possible.

1.1.1 Why choose Odoo

Why do so many users choose Odoo management software? According to the users' feedback, these have been the predominant reasons:

- **Low cost of ownership and no lock-in:** cost of installing, configuring and running an ERP system is expensive. There is no license fee to run Odoo Community version, so users can save the cost for implementation and customization. And because it is open source software, user can download Odoo free of charge, test it and use it.
- **Customizable:** Odoo is flexible to customize to users' needs. With so many modules, the user can choose the ones that fits with their business requirements.
- **Comprehensive and modular:** Odoo is an all-in-one business software including CRM, Website/e-Commerce, billing, accounting, manufacturing, warehouse and project management, and inventory. The main Odoo components are the OpenObject framework, about 30 core modules and more than 3000 community modules.
- **Updated technology:** Odoo is based on a technology stack which is modern and up-to-date. And with its open source community, it is actively maintained by a large base of developers to meet customer's needs and provide new applications.

1.2 Scope

Human Resources: Human Resources Module

- Create and manage employee profile
- Create and manage employee profile

- Create and manage Departmental hierarchy
- Create and manage contracts
- Employee dashboard
- Import and export to Excel

Recruitment: Recruitment Module

- Create job position
- Publish vacancies
- Review applications
- Manage departments

Attendance: Attendance Module

- Tap in and tap out
- Reporting Dashboard
- Import and export to Excel
- Integrate with Payroll

Leave (time off): Leave (time off) Module

- Annual and other leave type
- Maintain Leave quota
- Employee self service
- Manager approval
- Integrate with Payroll

Payroll: Payroll Module

- Salary structure
- Setup payroll component

- Contract Management
- Reporting Dashboard
- Print pay slip and email pay slip
- Protect pay slip file with password
- Integrate with another modules

Performance Management (Appraisal): Performance Management (Appraisal)

Module

- Create and manage Employee appraisal
- Set evaluation scale
- Create goal
- Sort appraisal
- Generate report

Asset Management: Asset Management Module

- Maintain asset record
- Assign asset to employee
- Depreciation
- Generate report

1.3 System Requirements

1.3.1 Hardware Requirements

Odoo is an undemanding system. For 5-employee companies, a 2 CPU 2 RAM server would be enough (recommended 8 RAM), raising to 4 CPU 8 RAM for 20 employees. We would recommend splitting application and database servers for 90 employees.

Load balancing (LB) of application server would be needed for a company of 250+ employees.

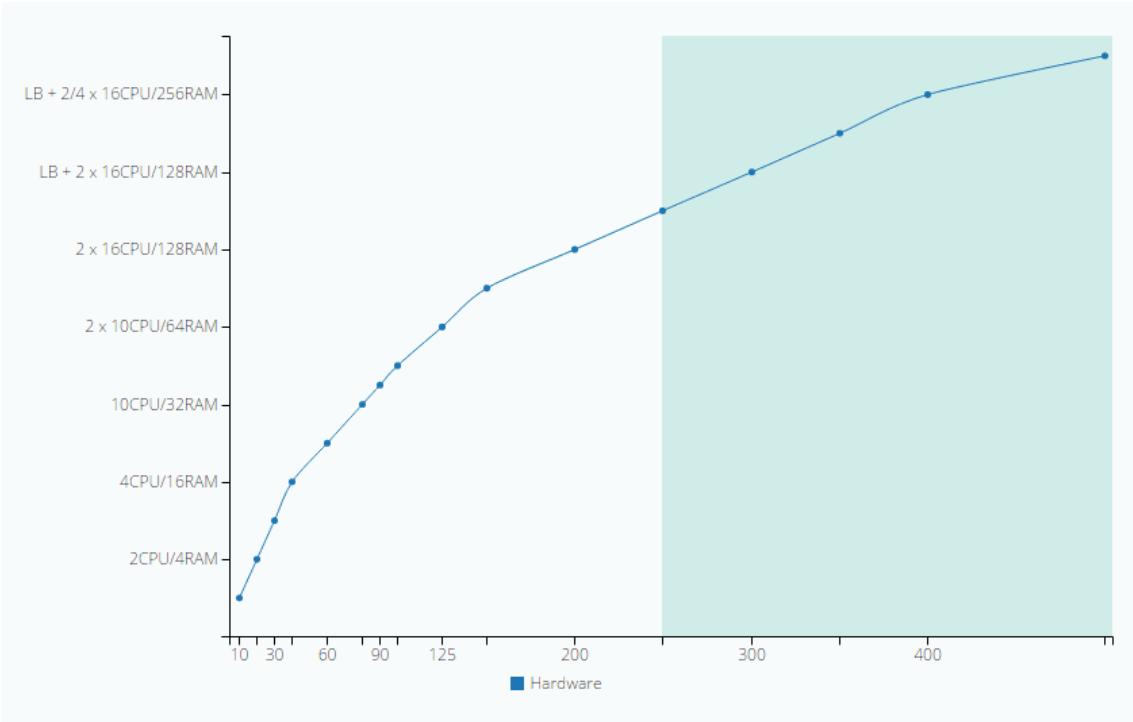


Figure 1.1: Odoo server requirements