

OptiSync

Optimizing Business Processes through
Synchronized ERP Solutions.

Table of Contents

1.	Introduction.....	
	
2. Business		
	RequirementsOverview.....	
	
3. Functional		
	RequirementsOverview.....	
	
4. Non-		
	FunctionalRequirements.....	
	

1. Introduction

1.1 Document Purpose

This document communicates the business requirements and scope for developing ERP solutions for manufacturing industry. The scope of this document is to define the functional and non-functional requirements, business rules and other constraints requirements.

1.2 Project Background

Small Scale company losses customers due to lack of systematic planning and control of working. They fail to delivery orders on time due to manual control over production process and cannot quickly estimate the product/order delivery time and calculate the cost options for making decisions. Inefficient supply planning and no operational information about the status of stocks in the warehouse lead to poor manufacturing practices.

1.3 Goals of the project

Our application allows management to check status for the current orders being executed, raw material entered in vicinity of the company is digitalized and will help overall stock analysis. Tracing of the parts in production is made easy with detail report of the parts being produced. Data generated in quality control for manufactured product is monitored with help of our application. Our application will help to track delivery and dispatch of the products manufactured.

1.4 Customers and Stakeholders

Customers:

- Small Scale or Medium Scale industry who wants to streamline their process.

Stakeholders:

- Manufacturing Organization.
- Production Engineers.
- Managers

2. Business Requirements Overview

- System is the private web application.
- System will be operational only to paid clients.
- This Software solution is made specifically for Small and medium-sized enterprises.
- Clients can streamline their manufacturing process.
- Clients can make better decision based on data coming from shop floor.
- Managers can have an updated status of current orders.

3. Functional Requirement Overview

OptiSync System consists of eight modules described as below.

1. Login/Registration Module
2. Setup(Done by Manager)
3. Admin Module
4. Manager Module
5. Store Module
6. Production Module
7. Assembly Module & Quality Module
8. Dispatch Module

3.1. Manager Module

- Login
- Registration
- Manager sets up the modules he received from the subscription module
- Receives order from client
- Checks order status
- Approves password recovery

3.2. Setup Module(Setup done by Manager)

- Sets Products
- Sets Parts

- Sets Raw Material
- Sets Machine List
- Sets Critical Path Method

3.3. Store Module

- Login
- Store incharge check status of the raw material.
- Store incharge orders new raw material
- Store incharge send the raw material to next department according to order.

3.4 Production Module

- Login
- Receives material from Store
- Updates daily task
- Forward material to Assembly& Quality

3.5 Assembly & Quality Module

- Login
- Receives material from Production
- Updates daily task
- Forward material to Dispatch

3.6 Login Module

- Login Page for authorized user
- Send request for retrieval of credential to Manager
- Registration of an organization according to their subscription plan

3.7 Dispatch Module

- Login
- Receives material from quality
- Dispatch can initiate task which will be assign to employee.
- Dispatch will sign off the final lot which will be dispatched.

3.8 Admin Module

- Admin can register new user.
- Admin can maintain overall update data.
- Admin can give access to new employee.
- Checks users status

- Password recovery
- Login

4. Non-Functional Requirements

- The website should use professional design, look and feel and color scheme.
- Users will have limitations for accessing the application through Internet. The portal being an internet application it will be accessed by company employee through a pre-paid module. As generally the MSE companies employees around 250 people minimum we will try to support such users employed by the organization.
- Being a private website, the site must follow general usability and Operability for menus, navigation, colors, links and other actions provided on the screens.
- The system should be designed in such a manner that user will be able to complete tasks in minimum number of steps.