SCM

**Supply Chain Management Calculator**

**Software Requirement Specification**

**Version: - 1.0**

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**Team Guide: - Team Members:-**

Mr. Naveen Jain Aanchal Garg

Archana Sharma

Ayushi Jain

SKIT College

Computer Science Department

Jaipur

**Table of Contents**

**Description**

1. Introduction
   1. Purpose
   2. Scope
   3. Definitions, Acronyms & Abbreviations
   4. References
   5. Technologies to be used
   6. Overview
2. Overall Description

2.1 Product Perspective

2.2 Software & Hardware Interface

* 1. Product Features
  2. Constraints

**Software Requirement Specification**

1. **Introduction**
   1. **Purpose:**

All facilities, functions, activities, associated with flow and transformation of goods and services from raw materials to customer as well as the associated information flows . Managing flow of information through supply chain in order to attain the level of synchronization that will make it more responsive to customer needs while lowering costs .It includes the movement and storage of raw materials, work in progress inventory and finished goods from point of origin to point of consumption.

* 1. **Scope:**

**SCM determines world wide manufacturing and distribution strategy, using supply chain model which recommends a production, distribution and vendor network.**

* 1. **Basic features:**

Functions and processes in SCM systems have specific characteristics because:

* Data of several networked enterprises , not only those of one company, must be stored. There is a need for special filtering and compression mechanisms before data is fed into common databases , to avoid too great an increase in the sizes of databases and data warehouses.
* Single bodies of data often have to be aggregated into larger groups: for instance, equipment into capacity groups, product characteristics into characteristics groups, products into product groups.
* Bigger problems have to be decomposed before they can be treated with optimization algorithms or heuristics; examples are the segmentation of a long planning horizon into several shorter time segments , for which solutions may successively be found although typically the global optimum will be missed.
  1. **Definitions, Acronyms, Abbreviations:**

SCM

SUPPLY CHAIN MANAGEMENT:- SCM is the management of flow of goods and services.It includes the movement and storage of raw materials, work-in-process inventory, and finished goods from point of origin to point of consumption.

UML

Unified Modelling Language:- It is standard language for writing software blueprints. The UML may be used to visualize, specify, construct & document.

HTTP

Hypertext Transfer Protocol:- It is a service protocol.

HTML

Hyper Text Mark-up Language:-It is standard language used to create web pages.

CSS

Cascaded Style sheet:- It is a style sheet used for describing the look & formatting of a document written in a mark up language. While most often used to style web pages & interfaces written in HTML & XHTML, the language can be applied to any kind of XML document, including pain XML, SVG & XUL.

RSA

Rational software Architect

GUI: Graphical User Interface with the system with mouse control and other easy to use control features like the menus etc.

* 1. **References:**
* Internet
* IBM – www.ibm.in/developerworks.
* Instructor
* Software Engineering, fourth edition, Roger S. Pressman.
* Object Oriented Modelling and Design with UML-Michael Blaha James Ranbaugh

**1.5. Technologies to be used:**

* XHTML
* CSS
* Php
* Xampp
* DB2

1. **Overall Description:**

The Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification.

* 1. **Product Perspective:**

The web pages (XHTML) are present to provide the user interface on customer client side.

The client software is to provide the user interface on system user client side and for his TCP/IP protocols are used .

* 1. **Software & Hardware Interface:**

Minimum Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Development Environment** | | | | |
| **Browsers** | **Operating System** | **Processor** | **RAM** | **Disk Space** |
| Internet Explorer - 6 | Windows 7 | Intel(R) core(TM) i3-4005U | 4 GB | 10GB |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Execution Environment** | | | | |
| **Software** | **Operating System** | **Processor** | **RAM** | **Disk Space** |
| Php | Windows 7 | Intel core i3 | **2 GB** | 10 GB |
| Xampp | 2 GB | 10 GB  (Excluding Data Size) |

* 1. **Product Features:**
* Information is available
* High integrity
* Internal email
* User Authentication
* User Friendly
* Fully automated
  1. **Constraints:**

1. Internet connection must be needed.
2. GUI is only in English.
3. Limited to HTTP/HTTPS.
4. This system is used for single server.

THANK YOU