

**Multiplex Megastore: Product Availability System**

**System Requirements Specification (SRS)**

Version Number: 1.0

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VERSION HISTORY

|  |  |  |  |  |  |
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| **Version Number** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Description of Change** |
| 1.0 | John Willemain | 10/16/2012 |  |  | Initial Document version |
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Table of Contents

[1 Introduction test 5](#_Toc55295836)

[1.1 Purpose of the System Requirements Specification Document 5](#_Toc55295837)

[2 Business Requirements Overview 5](#_Toc55295838)

[2.1 Assumptions/Constraints 5](#_Toc55295839)

[2.2 System Scope 5](#_Toc55295840)

[3 Functional Requirements 5](#_Toc55295841)

[3.1 Data Retrieval 5](#_Toc55295842)

[3.1.1 Products by category retrieval 5](#_Toc55295843)

[3.1.2 Individual products retrieval 5](#_Toc55295844)

[3.1.3 Product availability data retrieval 5](#_Toc55295845)

[3.1.4 Customer information retrieval 6](#_Toc55295846)

[3.2 Authentication /Verification 6](#_Toc55295847)

[3.2.1 Customer account authentication 6](#_Toc55295848)

[3.2.3 Customer payment verification 6](#_Toc55295849)

[3.3 Data Transfer 6](#_Toc55295850)

[3.3.1 Transfer of information to the shopping cart 6](#_Toc55295851)

[3.3.2 Transfer of information to the shipping department 6](#_Toc55295852)

[3.4 Calculations 6](#_Toc55295853)

[3.4.1 Calculation of total bill 6](#_Toc55295854)

[3.5 Creation Items 6](#_Toc55295855)

[3.5.1 New account 6](#_Toc55295856)

[3.5.2 Confirmation email 6](#_Toc55295857)

[4 Non-Functional Requirements 6](#_Toc55295858)

[4.1 Design Constraints 6](#_Toc55295859)

[4.2 Hardware Requirements 7](#_Toc55295860)

[4.2.1 Web server 7](#_Toc55295861)

[4.2.2 Server networking 7](#_Toc55295862)

[4.3 Software Requirements 7](#_Toc55295863)

[4.3.1 Use of existing software 7](#_Toc55295864)

[4.4 Performance Requirements 7](#_Toc55295865)

[4.4.1 Browser compatibility 7](#_Toc55295866)

[4.5 Reliability Requirements 7](#_Toc55295867)

[4.5.1 Shopping 24-7 7](#_Toc55295868)

[4.6 Supportability Requirements 7](#_Toc55295869)

[4.7 User Documentation Requirements 7](#_Toc55295870)

[4.7.1 Online help 7](#_Toc55295871)

[4.8 Interface Requirements 7](#_Toc55295872)

[4.8.1 Easy-to-use pages 7](#_Toc55295873)

[4.9 Security and Privacy Requirements 7](#_Toc55295874)

[4.9.1 Secure shopping 7](#_Toc55295875)

[4.10 Compliance and Standards Requirements 8](#_Toc55295876)

[4.10.1 ADA compliance 8](#_Toc55295877)

[5 Business Process Model 8](#_Toc55295878)

[6 Logical Data Model 8](#_Toc55295879)

[7 Requirements Traceability Matrix 8](#_Toc55295880)

[Appendix A: System Requirements Specification Approval 9](#_Toc55295881)

[Appendix B: References 9](#_Toc55295882)

[Appendix C: Business Process Model 9](#_Toc55295883)

[Appendix D: Logical Data Model 10](#_Toc55295884)

[Appendix E: Requirements Traceability Matrix 10](#_Toc55295885)

# 1 Introduction test

## 1.1 Purpose of the System Requirements Specification Document

The System Requirements Specification (SRS) defines the functional, non-functional, and technical requirements. The System Requirements Specification document is created during the Requirements Analysis Phase of the project. Its intended audience is the project manager, project team, project sponsor, client/user, and any stakeholder whose input/approval into the System Requirements Specifications process is needed.

# 2 Business Requirements Overview

In order to continue to be competitive, Multiplex Megastore has decided that an expanded presence on the World Wide Web that includes a product availability system for customers is of the highest priority. This project is designed to make this online feature a reality for the company within the next six months.

## 2.1 Assumptions/Constraints

Market research reveals that a large majority of Multiplex Megastore customers visit the store floor to inquire about the availability of a desired product. The research also indicates that a majority of the clientele would like the ability to check product availability across multiple Multiplex Megastore store locations.

## 2.2 System Scope

The scope of this project is to develop a product availability system for Multiplex Megastore, a company that sells household products. This system should allow in-store sales associates to assist customers (both established and new) by checking product availability, price, current inventory, and availability across other store locations of an item requested by the customer.

# 3 Functional Requirements

## 3.1 Data Retrieval

### 3.1.1 Products by category retrieval

Products from the inventory database must be retrieved by category for display on a page.

### 3.1.2 Individual products retrieval

Information on an individual product must be retrieved from the inventory database for display on a page.

### 3.1.3 Product availability data retrieval

Information of a product’s availability within a store location must be retrieved, alongside its availability across other nearby store locations.

### 3.1.4 Customer information retrieval

Account, billing and shipping information must be retrieved from the accounts database for display and use in the checkout process.

## 3.2 Authentication /Verification

### 3.2.1 Customer account authentication

A customer who has an existing account must be authenticated at the time of login.

### 3.2.3 Customer payment verification

A customer’s payment information (credit card number, etc.) must be verified along with the availability of credit.

## 3.3 Data Transfer

### 3.3.1 Transfer of information to the shopping cart

Information on each product selected on a product page must be transferred to the shopping cart for summary.

### 3.3.2 Transfer of information to the shipping department

Information on the final products purchased along with the proper shipping information must be transferred to the shipping department for processing.

## 3.4 Calculations

### 3.4.1 Calculation of total bill

Calculations of each product’s price (quantity \* unit price), subtotals, shipping fees, taxes (if applicable) and a grand total must all be done in the shopping cart.

## 3.5 Creation Items

### 3.5.1 New account

A new customer must be able to create a new account.

### 3.5.2 Confirmation email

An email confirming the order (including a reference number) must be created at the time of checkout and emailed to the customer.

# 4 Non-Functional Requirements

## 4.1 Design Constraints

There are no known constraints on the design of this system.

## 4.2 Hardware Requirements

### 4.2.1 Web server

A new web server to handle the traffic from the on-line site will be needed.

### 4.2.2 Server networking

The new server will need to have a direct and secure connection to the server(s) that hold(s) the company’s inventory database and accounts database.

## 4.3 Software Requirements

### 4.3.1 Use of existing software

No new software will be needed since it is anticipated that the new system can be built in-house using standard software such as XML, Php, MySQL, etc. as needed.

## 4.4 Performance Requirements

### 4.4.1 Browser compatibility

The system needs to be compatible with the last few versions of the major browsers (Internet Explorer, Firefox, Safari, Chrome, etc.). It is NOT anticipated at this time that the system will function well in situations where a dial-up modem is in use.

## 4.5 Reliability Requirements

### 4.5.1 Shopping 24-7

The system must be capable of handling shoppers 24 hours a day, 7 days a week.

## 4.6 Supportability Requirements

## 4.7 User Documentation Requirements

### 4.7.1 Online help

The system must provide easy-to-use online help for the customer.

## 4.8 Interface Requirements

### 4.8.1 Easy-to-use pages

The web pages must be easy for the customer to use and navigate. The number of clicks needed during the shopping experience should be kept to a minimum.

## 4.9 Security and Privacy Requirements

### 4.9.1 Secure shopping

Once the customer reaches the “check-out” phase, all activity must occur in a secure environment. Authentication must happen upon reaching this phase.

## 4.10 Compliance and Standards Requirements

### 4.10.1 ADA compliance

The web site must meet all government standards for use by those with disabilities.

# 5 Business Process Model

See the attached document. (Note: For this example, there is no such document.)

# 6 Logical Data Model

Data for this project is contained in two existing databases. The accounts database holds all the information regarding the customers, including location, contact person, shipping and billing information. The inventory database is the repository for all of the products that are offered by Multiplex Megastore. Included are the current levels of each product along with the associated costs and prices. The new system will create a bridge between these two databases for the purpose of enabling customers to make direct purchases. For more details, see the attached document. (Note: For this example, there is no such document.)

# 7 Requirements Traceability Matrix

See the attached spreadsheet. (Note: For this example, there is no such document.)

# Appendix A: System Requirements Specification Approval

The undersigned acknowledge that they have reviewed the **Multiplex Megastore System Requirements Specification** and agree with the information presented within this document. Changes to this System Requirements Specification will be coordinated with, and approved by, the undersigned, or their designated representatives.

Signature: MR

Date: 10/29/20

Print Name: Matthew Rivera

Title:

Role:

Signature:

Date:

Print Name:

Title:

Role:

Signature:

Date:

Print Name:

Title:

Role:

# Appendix B: References

The following table summarizes the documents referenced in this document.

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| **Document Name** | **Description** | **Location** |
| <Document Name and Version Number> | <Document description> | <URL or Network path where document is located> |
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# Appendix C: Business Process Model

No document is attached for this example.

# Appendix D: Logical Data Model

No document is attached for this example.

# Appendix E: Requirements Traceability Matrix

No document is attached for this example.