



Hanoi University

LALA STORE

<Online Clothes Store> Software Requirements Specification

Version <1.0>

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
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Revision History

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<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

Table of Contents

1. Introduction:	4
1.1 Purpose	4
1.2 Scope	4
1.3 Definitions, Acronyms, and Abbreviations	4
1.4 References	5
1.5 Overview	5
2. Overall Description	5
2.1 Product perspective	5
2.2 Product functions	6
2.3 User characteristic	7
2.4 Constraints	8
2.5 Assumptions and dependencies	8
2.6 Requirements subsets	8
3. Specific Requirements	8
3.1 Functionality	8
3.1.1 <Functional Requirement One>	8
3.2 Usability	12
3.2.1 <Usability Requirement One>	12
3.3 Reliability	12
3.3.1 <Reliability Requirement One>	12
3.4 Performance	12
3.4.1 <Performance Requirement One>	12
3.5 Supportability	12
3.5.1 <Supportability Requirement One>	13
3.6 Design Constraints	13
3.6.1 <Design Constraint One>	13
3.7 On-line User Documentation and Help System Requirements	13
3.8 Purchased Components	13
3.9 Interfaces	13
3.9.1 User Interfaces	13
3.9.2 Hardware Interfaces	14
3.9.3 Software Interfaces	14
3.9.4 Communications Interfaces	14
3.10 Licensing Requirements	115
3.11 Legal, Copyright, and Other Notices	115
3.12 Applicable Standards	115
4. Supporting Information	15

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

Software Requirements Specification

1. Introduction:

This section gives a scope description and overview of everything included in this document. Also, the purpose for this document is described and a list of abbreviations and definitions is provided.

1.1 Purpose:

The purpose of this document is to give a detailed description of the requirements for the “Online Clothe Store” (OCS) website which will provide information about costume patterns, show functions of website when users is admin or buyer. It will also explain system constraints, interface and interactions with other users. This document is primarily intended to be proposed to a customer for its approval and a reference for developing the first version of the system for the development team.

1.2 Scope:

The document describes the requirements along with interfaces for the system website of Online Clothes Store. So, it is used for website developers, specialized students or someone who need basic knowledge about websites. It also will be the basis for validating the final delivered system.

1.3 Definitions, Acronyms, and Abbreviations:

Term	Definition
User	Someone who interacts with the website [1]
Admin/Administrator	System administrator who is given specific permission for managing and controlling the system [1]
Data-centric	Contrast the design to an alternative approach
Web-Portal	A web application which present special facilities for store owner and admin
Stakeholder	Any person who has interaction with the system who is not a developer.
DESC	Description
DEFINED	Determine or make clearly a problem or detail of system.

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

1.4 References:

[1] “Amazing Lunch Indicator” – Software Requirement Specification, Sarah Geagea 881024-4940 and Sheng Zhang 850820-4735

[2] Online Shopping System Software Requirements
http://www.freestudentprojects.com/studentprojectreport/project-srs/online-shopping-system-software-requirements/Feldt R, “re_lecture5b_100914”, unpublished

[3] Davis M A, “Just Enough Requirements Management: Where Website Development Meets Marketing”, New York, Dorset House Publishing, 2005.

[4] Karlsson J, “A Cost-Value Approach for Prioritizing Requirements”, Norges TekniskNaturvitenskapelige Uni. 1997

1.5 Overview:

The remainder of this document includes three chapters and supporting information. The second one provides an overall description of the system function OCS and system interaction with users. The third chapter provides the requirements specification in detailed terms such as Functionality, Usability, Reliability, Supportability and a description of the OCS website. This chapter also introduces different types of stakeholders and their interaction with the system. Further, the chapter also mentions the system constraints and assumptions about the product, licensing requirement, legal and some information related to website.

The fourth chapter deals with makes the **SRS** easier to use. It includes: table of contents, index and appendices. These may include use-case storyboards or user-interface prototypes. When appendices are included, the **SRS** should explicitly state whether or not the appendices are to be considered part of the requirements.

2. Overall Description:

2.1 Product perspective:

Nowadays, the more developing the society is, the more increasing people’s demand is. Therefore, a lot of online web pages are also set up to meet their needs and be more convenient for them. One of the most popular web pages is shopping online about fashion such as clothes, shoes, glasses... It is the best choice for people who are busy all day long and do not have any time to shop. And we are also developing a clothes shopping web for a company being in charge

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

of information technology and needing a shopping online store. This system will consist of 2 parts: one index page and one web portal. The index page will be used to find clothes and view information about them while the web portal will be used for managing the information about the clothes and the system as a whole. The website is designed quite simple direction to friendly for both sellers and customers and security to commit that any information provided by 2 sides is strictly confidential and the user interface is easy to see and use. There are always many special sale programs and the quality of products is good, suitable for all customers, so this web will attract lots of people more.

Since this is a data-centric product, it will need somewhere to store the data. For that, a database will be used. Both the index page and web portal will communicate with the database. The index page will only use the database to get data while web portal will also add and modify data. All of the database communication will go over the Internet.

2.2 Product functions

* Iteration 1:

With the index page, the users will be able to:

- + Homepage
- + View about us
- + View post/ post detail
- + Manage cart
- + Contact
- + View all clothes

* Iteration 2:

- + User authentication
- + Register
- + Search/filter product
- + Manage Order
- + Review product
- + Check out

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

*** Iteration 3:**

- + Manage employee
- + Manage product
- + Manage order
- + Manage customer
- + Manage admin account
- + Manage review
- + Manage post
- + Admin authentication
- + Manage report
- + Manage category
- + Manage about us
- + Manage contact

The web portal will provide functionality to manage the system and the clothes information. It will also provide information about the system, for example show when there is a new update, add, edit, delete products.

2.3 User characteristics:

There are 3 types of users that interact with the system: users of this website, cloth owners and administrators. Each of these three types of users has different use of the system so each of them has their own requirements.

The users of this website can only use the website to find clothes. This means that the users have to be able to search, filter for clothes, choose a cloth from that search, filter and then navigate to it.

The cloth owners will not use this web but the web portal instead. There they will manage the information about their clothes.

The administrators also only interact with the web portal. They are managing the overall system so there is no incorrect information within it. The admin can manage the information for each cloth as well as the options for both the users and the cloth owners.

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

2.4 Constraints:

The Internet is a constraint for the website. Since the website fetches data from the database owner the Internet, it is crucial that there is an Internet connection for the website to the function. Both the web page and the web portal will be constrained by the capacity of the database.

2.5 Assumptions and dependencies:

- The details related to the product, customer, payment and service transaction provided manually.
- Administrator is created in the system already.
- Roles and tasks are predefined.

2.6 Requirements subsets:

In case that the project is delayed, there are some requirements that could be transferred to the next version of the website.

3. Specific Requirements:

3.1 Functionality:

3.1.1 User: Show clothes:

The users shall be able to see the home page of the online clothe store when they access the page. The users shall be able to view the different categories, select categories, browse through the items in each category, and add items to the clothe store. The users shall be able to view the clothe store and more information about each item.

- **FR01:** The users shall be able to view the latest product on the clothe store's home page.
- **FR02:** The users shall be able add items to the cart.
- **FR03:** The users shall be able to view more information about an item before adding it to the cart.
- **FR04:** The users shall be able to able view the clothe store.

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

- **FR05:** The users shall be able to browse through the available items.

3.1.2 User: Show about us

User shall able to see the page about information of store

- **FR6:** The user shall able to view about us page

3.1.3 User: View posts and post detail

Post is news which relate to fashion. And user can read the new via post page

- **FR7:** The user shall able to view post page
- **FR8:** The user shall able to view detail of each post

3.1.4 User: Manage Shopping Cart

View Shopping Cart: After the first browser homepage, the users shall be able to see their designated home page. After browsing through the items and adding items to the shopping cart, the users should be able to view the items in the shopping cart. The users shall be able to check out or continue shopping. The users shall be able to delete items from the cart.

- **FR9:** The users shall be able to view the items added to the cart.
- **FR10:** The users shall be able to check out with the current items in the cart.
- **FR11:** The users shall be able to continue shopping.
- **FR12:** The users shall be able to delete items from the cart.

3.1.5 User: Contact

- **FR13:** The user shall able to view contact page
- **FR14:** The user shall able to send message to shop owner

3.1.6 User: Checkout items

- **FR15:** The users shall be able to check out items only when there are items in the shopping cart.

3.1.7 User: User Authentication

- **FR16:** The users shall login or register using the user authentication form
- **FR17:** The users shall not login or register if the information is incomplete

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

or invalid.

- **FR18:** User can get password if they forgot
- **FR19:** User shall able to logout of the system

3.1.8 User: Register

- **FR20:** User shall able to register an account to login system
- **FR21:** User shall not able to register if information is not valid

3.1.9 User: Search/ filter product

- **FR22:** User shall able to search product by keyword
- **FR23:** User shall able to filter product by category

3.1.10 User: Manage Order

- **FR24:** The users shall place an order by completing the information in the order form
- **FR25:** The users shall not be able to place an order if the information in the order form is invalid or incomplete

3.1.11 User: Review product

- **FR26:** User shall able to rate product
- **FR27:** User shall able to give a comment on product
- **FR28:** User shall not able to comment if comment is invalid

3.1.12 User: Manage payment

- **FR29:** User can select their payment method

3.1.13 Admin: Manage employee

- **FR30:** Admin shall able to view employee manager page
- **FR31:** Admin shall able to add new employee
- **FR32:** Admin shall able to delete employee\
- **FR33:** Admin shall able to update employee

3.1.14 Admin: Manage product

- **FR34:** Admin shall able to view product manager page
- **FR35:** Admin shall able to add new product
- **FR36:** Admin shall able to delete product
- **FR37:** Admin shall able to update product

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mm/yy>
<document identifier>	

3.1.15 Admin: Manage customer

- **FR38:** Admin shall able to view customer manager page
- **FR39:** Admin shall able to delete product

3.1.16 Admin: Manage review

- **FR40:** Admin shall able to view product review manager page
- **FR41:** Admin shall able to comment on review

3.1.17 Admin: Manage product

- **FR42:** Admin shall able to view product manager page
- **FR43:** Admin shall able to add new product
- **FR44:** Admin shall able to delete product
- **FR45:** Admin shall able to update product

3.1.18 Admin: Manage post

- **FR46:** Admin shall able to view post manager page
- **FR47:** Admin shall able to add new post
- **FR48:** Admin shall able to delete post
- **FR49:** Admin shall able to update post

3.1.19 Admin: Manage admin account

- **FR50:** Admin shall able to view admin account manager page
- **FR51:** Admin shall able to add new admin account
- **FR52:** Admin shall able to delete admin account
- **FR53:** Admin shall able to update admin account

3.1.20 Admin: Manage check out

- **FR54:** Admin shall able to view check out manager page
- **FR55:** Admin shall able to send check out to shipper for shipping

3.1.21 Admin: Manage post

- **FR56:** Admin shall able to view post manager page
- **FR57:** Admin shall able to add new post
- **FR58:** Admin shall able to delete post
- **FR59:** Admin shall able to update post

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

3.1.22 Admin: Manage report

- **FR60:** Admin shall able to view report manager page
- **FR61:** Admin shall able to filter report manager page

3.2 Usability:

Price, time saving and convenience were identified as important factors which lead to certain buying behavior in online shopping.

3.2.1 <Usability Requirement One>

3.3 Reliability:

3.3.1 Back-end Internal Computers:

The system shall provide storage of all databases on redundant computers with automatic switchover.

The system shall provide for replication of databases to off-site storage locations.

The system shall provide RAID V Disk Stripping on all database storage disks.

3.3.2 Internet Service Provider:

The system shall provide a contractual agreement with an internet service provider for T3 access with 99.9999% availability.

The system shall provide a contractual agreement with an internet service provider who can provide 99.999% availability through their network facilities onto the internet.

3.4 Performance:

The product shall be based on web and has to be run from a web server.

The product shall take initial load time depending on internet connection strength which also depends on the media from which the product is run.

The performance shall depend upon hardware components of the client/customer

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

3.5 Supportability:

3.5.1 <Supportability Requirement One>

3.6 Design Constraints:

3.6.1 Configuration Management Tool

The source code developed for this system shall be maintained in configuration management tool.

3.7 Online User Documentation and Help System Requirements:

3.7.1 Standard Development Tools:

The system shall be built using a standard web page development tool that conforms to either IBM's CUA standards or Microsoft's GUI standards.

3.7.2 Web Based Product:

There are no memory requirements

The computers must be equipped with web browsers such as Internet explorer.

The product must be stored in such a way that allows the client easy access to it.

Response time for loading the product should take no longer than five minutes.

A general knowledge of basic computer skills is required to use the product

3.8 Purchased Components:

<Not applicable>

3.9 Interfaces

There are many types of interfaces as such supported by the E-Store software system namely; User Interface, Software Interface and Hardware Interface.

The protocol used shall be HTTP.

The Port number used will be 80.

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mm/yy>
<document identifier>	

3.9.1 User Interfaces:

The user interface shall be implemented using any tool or software package like Java Applet, MS Front Page, EJB etc.

[Describe the user interfaces that are to be implemented by the software.]

3.9.2 Hardware Interfaces:

Since the application must run over the internet, all the hardware shall require to connect internet will be hardware interface for the system. As for e.g. Modem, WAN – LAN, Ethernet Cross-Cable.

3.9.3 Software Interfaces:

1. The e-store system shall communicate with the Configurator to identify all the available components to configure the product.
2. The e-store shall communicate with the content manager to get the product specifications, offerings and promotions.
3. The e-store system shall communicate with BillPay system to identify available payment methods, validate the payments and process payment.
4. The e-store system shall communicate to credit management system for handling financing options.
5. The e-store system shall communicate with CRM system to provide support.
6. The e-store system shall communicate with Sales system for order management.
7. The e-store system shall communicate with shipping system for tracking orders and updating of shipping methods.
8. The e-store system shall communicate with external Tax system to calculate tax.
9. The e-store system shall communicate with export regulation system to validate export regulations.
10. The system shall be verisign like software which shall allow the users to complete secured transaction. This usually shall be the third party software system which is widely

<Project Name>	Version: <1.0>
Software Requirements Specification	Date: <dd/mmm/yy>
<document identifier>	

used for internet transaction.

3.9.4 Communications Interfaces:

The e-store system shall use the HTTP protocol for communication over the internet and for the intranet communication will be through TCP/IP protocol suite.

3.10 Licensing Requirements:

<Not Applicable>

3.11 Legal, Copyright, and Other Notices:

E-store should display the disclaimers, copyright, word mark, trademark and product warranties of the Marvel electronics and home entertainment.

3.12 Applicable Standards:

It shall be as per the industry standard.

4. Supporting Information:

Please refer the following document:

1. Document for E-store.
2. Use case analysis.
3. Database specification
4. User story