Software Requirements Specification for XXX Online Shopping

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1. Introduction Page 1

1.1 Purpose

XXX Online Shopping:

-Customers can give an order easily and 7/24 hours who want products in XXX.

-Orders can be delivered in most possibble early time.

-The System stores some customer's shopping informations because:

-Developing product advertisements

-Improving marketing strategy

-Product content management

This software package will develop for:

. Provide a new update. Ensure that sufficient testing is done for the new update.

. Reduce the time it takes to add and remove products from Store IT Personal.

. To ensure that the added or removed product is correctly displayed on the system.

. During this process, ensure that the product images are synchronized correctly in the visual interface of the system.

. Providing information about the inadequacy of the hardware equipment and the speed of internet access used by the relevant department of the company.

1.2 Document Conventions

The following documentation conventions are followed in preparing this SRS:

. SRS-Software Requirement Specification

1.3 Intended Audience and Reading Suggestions

This document is created for,

. Store IT Personnel,

. Customer,

. Store Personnel,

.Software Development Team

1.4 Product Scope

The scope of the 'XXX Online Shopping' software system to be developed is as follows:

- 1)All products sold at XXX stores at XXX Online Shopping, with the same price and advantages as XXX stores, are available 24/7 to be ordered online.
- 2) The customer who wants to buy the product should be a member.
- 3) Store all products entered by Store IT Personnel in the database, show products to customers, IT staff, and store personnel and finally, process the products(add, remove, update and associate).
- 4) Present products with seamless graphical interface to Store IT Personnel and store person.
- 5) To present the products to customers through www.sanalmarket.com or XXX Online Shopping Mobile Application without problems, to realize the sale and

to specify the stock status of the product.

6) Customers may be required to provide personal information while in contact with XXX. XXX will be able to use this personal information in accordance with the Privacy Policy. XXX may combine this information with other information to prepare and improve its products, services, content and advertisements.

(Referenced from www.sanalmarket.com).

1.5 References

The following references are used in preparing this SRS:

- . REFERANCE
- . REFERANCE
- . REFERANCE

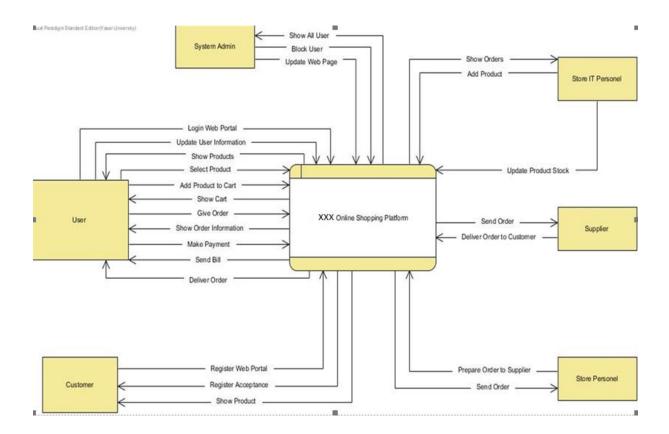
2.1 Product Perspective

XXX Online Shopping, Turkey's online shopping application, has been serving as Turkey's largest and most extensive food e-commerce site since 1990. This software system can be used through mobile application and website. This software system is not a subcomponent of any system.

2.2 Product Functions

This software system is expected to offer the following services:

- 1) Store IT Personnel
 - .Analyze product sales
 - .Follow closely; became or will become possible modifications
 - .He can see instantly orders and analyze them
 - .Add new products in system through user interface
- 2) Store Personnel
 - .Can see instantly orders
 - .Prepare order to supplier
 - .Products fall from stocks
- 3) Customers
 - . Can see all products in XXX Online Shopping Platform
 - . Have to register for shopping
- . Have to give some personal informations (Address, Phone Number, TC Number, Mail Address) during registration
- 4) Supplier
 - . Send order and prepare order



2.3 User Classes and Characteristics

- 1) Store IT Personnel: It adds new products to the database via user interface and makes necessary updates. It keeps track of the product stocks in the store where it is responsible and the changes which may occur and occur.
- 2) Customer: You can see all products sold at XXX stores. May be a member to shop. Sepete can buy the products it adds. They share certain personal information.
- 3) Store Personnel: can see instantly orders, prepare order to supplier and products fall from stock.
- 4) Supplier: brings the product to XXX.

2.4 Operating Environment

This software system is:

- a) Work in Android OS Windows another versions- Linux another versions.
- b) "cookies", "pixel tags" and "web beacons" Technologies.
- c) Developed Microsoft Visual Studio, ASP.NET with C#, JSON, CSS, Javascript, jQuery, HTML.
- d) Database unknown.

2.5 Design and Implementation Constraints

Constraints the design time constraints are:

- a) This software system will be used by people in store in 1594 store and 73 cities in Turkey. This software system must deal with this weight.
 - b) It should store all users' data without problems. Associating this data.
 - c) This ensures the safety of the data.
 - d) "cookies", "pixel tags" and "web beacons" Technologies.
- e) This Software System developed Microsoft Visual Studio, ASP.NET with C#, JSON, CSS, Javascript, jQuery, HTML. These should be taken into account for the maintenance of this software.
 - f) (We could not get any definitive information about the database).

2.6 User Documentation

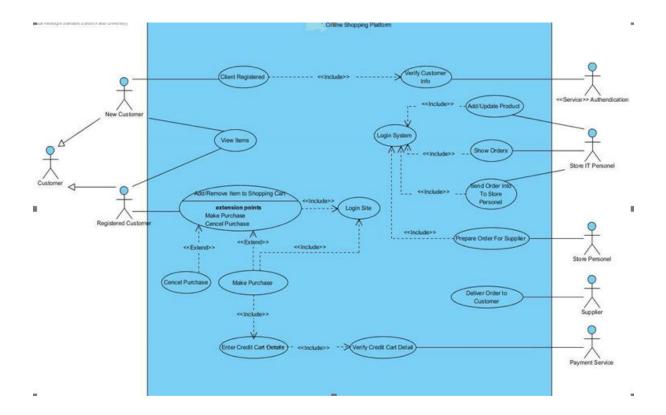
- a) This software system will be delivered with an Instruction manual for the stakeholders to use.
- b) Analysis reports, designs, well-maintained software, test cases and test suites will be delivered at the end of the project.

2.7 Assumptions and Dependencies

- 1) After this software system maintenance is done, the Store IT Personal addition / deletion process and update process will be done more quickly and smoothly.
- 2) Store IT Personal will not encounter a synchronization problem on the tablet screen.
- 3) Store IT Personal will make requests of other customers faster and more comfortable.
- *Achieving these desired assumptions depends on the success of successful engineers, database administrators and front-end developers.

3. System Features

- a) All requirements of the XXX Online shopping for Store IT Personnel.
- b) All requirements of the XXX Online shopping for Customer.
- c) All requirements of the XXX Online shopping for Store Personnel.



3.1 System Feature 1

Description of Feature: Add, remove and update products by store IT personal.

3.1.1 Description and Priority

Description of Feature: Add, remove and update products by store IT personal.

It is a high priority. The problem to be solved in the first place is that it has the advantage that the degree of benefit is high. Therefore, the cost and risk are relatively high automatically.

3.1.2 Stimulus/Response Sequences

1) Store IT Personal decides to do one of adding, removing and updating.

2) If the decision is to add, Store IT Personal adds the product ID and other details to the database via the user interface.

3) If the decision is to remove, the Store IT Personal from the user interface the extraction process is selected and the corresponding ID is entered and deleted from the database.

4) If the decision is to update, Store IT Personal from the user interface the update operation is selected. Then the product is found. After this step, the Store IT Personal changes and stores the places where the product needs to be replaced.

3.1.3 Functional Requirements

A use-case specification was created to show this in a simple way.

Use Case Name:

Add, remove and delete products.

Actors: Store IT Staff

Triggers:

- Store IT Personnel wants to add a product.
- Store IT Staff wants to remove a product.
- Store IT Personnel wants to update a product.

Pre-requisite:

- System is running.
- Store IT Personal has a username and password.

Situations:

• Store IT Personal products have been added ,removed or updated without problems.

Normal Flow:

- 1) Enter Store IT Personal system.
- 2) Store IT Personal enters the system.
- 3) Store IT Personal enters the system.
- 4) The username and password are verified by the system.
- 5) Enter Store IT Personal menu.
- 6) The menu item selects one of "show products", "add product", "delete product" and "update product information".
- 7) Store IT Personal checks for changes.

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8) Store IT Personal saves changes.		
9) Use case.		
Alternate Flows:		
4A1) Invalid username or password entered by Store IT Personal.		
1)An error message will be displayed on the screen.		
2)The system will display a message that it should try again.		
3) Return step 2.		
4A2) Store IT Personal entered incorrect username or password after 3 times.		
1)The system will block the account.		
2) The system will notify the person that they should communicate with the system admin with a warning message.		
3) Use case end.		
6A1) Store IT Personal Selects "show products".		
1) Instead of searching, it enters the product ID for the product it wants to review.		
2) Store IT Personal examines the selected product.		

3) Continue step 5.

- 6A2) Store IT Personal Select "add products".
 - 1) The system creates an automatic ID for the product.
 - 2) Store IT Personal enters other information of the product into the system.
 - 3) Store IT Personal Click the "add" button.
 - 4) Continue step 7.
- 6A3) Store IT Personal select "product remove".
 - 1) Store IT Personal enters the product ID for the product to be deleted.
 - 2) The system displays the product in the user interface to Store IT Personal.
 - 3) Store IT Personal click "delete" button.
- 4) The system will give you the message that you are sure you want to delete this product.
 - 5) Store IT Personal click "I am sure" button.
- 6) The system assigns this deleted product information to the table of deleted products in the database.
 - 7) The product is deleted from the products table in the database.
 - 8) Continue step 7.
- 6.4A1) Store IT Personal click "I am not sure" button.
 - 1) Continue 6.3.

- 6A4) Store IT Personal click "Update product information" button.
 - 1) Store IT Personal enters the product ID for the product to be updated.
 - 2) The system displays the product in the user interface to Store IT Personal.
 - 3) Store IT Personal changes the information you wish.
 - 4) Store IT Personal click "Update" button.
- 5) The system will give you the message that "you are sure" you want to update this product.
 - 6) Store IT Personal click "I am sure" button.
 - 7)Continue step 7.

7A1)Store IT Personal sees that there is a mistake in transactions.

- 1) Store IT Personal click "Transaction cancellation" button.
- 2) System returns to its original state.
- 3) Continue step 5 (Optional: use case end)

3.2 System Feature 2

Description of Feature: Customer's purchase transaction. It is a high priority.

3.2.1 Description and Priority

Description of Feature: Customer's purchase transaction. It is a high priority. The general purpose of this system is to provide smooth service to the customer. The customer service is one of the visions of XXX. Therefore, the risk level is high. Cost level is low because there is nothing to fix in the purchase process.

3.2.2 Stimulus/Response Sequences

- 1) The person logs in to the application.
- 2) The person can see all the products.
- 3) The person selects the products and prompts to add the basket.
- 4) It is verified whether or not the client is a member.
- 5) If the person is not a member, the system notifies you that it should become a member.
- 6)If the person is a member, the person adds the product to the basket.
- 7) The member checks the products in the basket.
- 8) Member pays products by credit card.
- 9)The member receives the products delivered within a short period of time.

3.2.3 Functional Requirements

A use-case specification was created to show this in a simple way.

Use Case Description: XXX online shopping platform allows customer to obtain online order from their stores. This use case begins when a customer want to buy products. The customer adds the desired products to the shopping cart and confirms the order. The customer enters the credit card information and places the order. The system sends the transaction to the payment authentication system for verification. If the payment authentication system approves the transaction, the supplier deliver order to customer.

Use Case Name: Make Purchase

Actors:

- Any Bank Customer (Has an existing account)
- Authentication Service
- Supplier

Triggers:

• The user wants to buy something in the XXX online shopping platform.

Preconditions:

- The customer shall register and log in the online shopping platform.
- The customer must have a credit card.

Post conditions:

• The customer has received their products (and optionally a receipt).

Normal Flow:

- 1. The customer login the online shopping platform.
- 2. The authentication verifies that the user information is a valid information.
- 3. The online shopping platform presents the all products.
- 4. The customer add products to their shopping cart.
- 5. The customer confirm the order.
- 6. The customer enter the credit cart details for purchase.
- 7. The payment system confirm the credit cart details and enough money.

- 8. The supplier deliver order to customer with products and bill.
- 9. Use case ends.

Alternate Flows:

- 2A1: The customer entered invalid password.
- 1. The application will show invalid password message.
- 2. The application will record log.
- 3. The application will ask to customer try again password.
- 4. The application will check how many try again.
- 5. The use case will return to step 1 and continues.
- 2.4A1: The customer exceeded the number of password try.
 - 1. The application will show blocked the account message.
 - 2. The application will record log and send to system.
 - 3. The system will send a message to customer.
 - 4. The use case ends.
- 7A1: The customer has entered invalid credit card details. The system will show error message.
- 1. The application will show error message: "incorrect credit card information".
- 2. The application will ask to customer try enter cart details.
- 3. The use case will return to step 6 and continues.

7A2: The customer's credit card's has not enough money. The system will show error message.

- 1. The application will show error message: "Insufficient balance".
- 2. The customer update the shopping cart.
- 3. The use case ends.

Exception Flows: E1:The application will out of order due to network failure.

4. Other Nonfunctional Requirements

4.1 Performance Requirements

This software should be able to handle the following tasks:

We have to develop the performance and fix the bugs because systems performance is not enough.

Database could need to be normalization.

System database must handle informations of 1594 Total markets in Turkey

There should be wrong implementation. This should revaluation and reimplement ASP .NET MVC for synchronization problem.

4.2 Safety Requirements

This software will ease the process of customers order. It could try to perfect service. All important details should be maintained in hard copy as well.

Certificate Authorities is significant issue. All Certificates must be current for safety and reliability.

4.3 Security Requirements

Systems firewalls, IPS's and storages can be controlled and increased. Systems logs must be saved 7/24. Confidentiality must be provided from attackers.

Customers and Staff private and important informations must be stored encrypted types (hash + salt) in Database.

Systems and stakeholders software's must be used current version.

Systems should be used multiple factor authentication.

This software will

- -Authenticate each user, who logs in;
- -When the user performs any action, authorize him/her to perform the actions allowed for the user and displays an error message if found to be unauthorized.

4.4 Software Quality Attributes

System should be user friendly.

System should be has used easy interfaces.

System should be understandable.

System should be agile software.

System should be increased process capabilities.

System should be protected stability.

4.5 Business Rules

When customer got problems about application, Online support should help them.

5. Other Requirements

Appendix A: To Be Determined List

Appendix 1: Username and Password

- 1) Username must be unique for all users.
- 2) Password must be unique for all users.
- 3) Your password must be at least 6, at most 20 characters, at least 1 letter and at least 1 digit.

Appendix 2: Information requested while being a member.

- 1) Enter e-mail address and create a new password. (Your password must be at least 6, at most 20 characters, at least 1 letter and at least 1 digit.)
- 2) Name, Surname, Date of birth, Gender, T.C. Identification number, Money Card Type.