

Linneuniversitetet Kalmar Växjö

2DV608 Assignment 1 Software Design



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Linneuniversitetet

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Abstract

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Keywords

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Topic:

OSP – Imagine you are designing and developing an online shopping portal like Amazon.

 SHOESONLY is the name of the online shopping portal throughout this document along with OCL diagrams

1 Stakeholders

- Customers- can view and buy product from "SHOESONLY" online shopping web portal
- 2. Manager- is responsible for generating revenue
- 3. HR department is responsible for:
 - Employee health and safety
 - Hiring new staff
 - Upskilling employees
 - ❖ Payroll
 - Delivery insurance
- 4. Database developers and administrators are responsible for:
 - * keeping the system up-running
 - providing transaction security

2 Functional requirements

2.1 Requirement 1: Registration of a new customer

- New members can directly:
 - buy goods over the SHOESONLY web browser
 - ❖ can use all available services by agreeing the SHOESONLY policy
 - ❖ can get 10% on the first transaction

2.2 Requirement 2: Customer Sign in

- Existing customer
 - ❖ Can add, modify and remove items from shopping Cart
 - Can keep items in the shopping Cart
 - ❖ Gets latest offers and discounts in real time

2.3 Requirement 3: Payment authentication

• Once the customer decides what items needs to be purchased, The customer is directed to the payment page to complete the purchase

3 Non-functional requirements

- 1. Customer name and last name should only consist of letters
- 2. Phone number should only consist of numbers
- 3. The minimum age for registration is 16 years old
- 4. Customer home address should only contain letters and numbers

4 Checklist for requirements Analysis			
	Req 1	Req 2	Req 3
Requirements ambiguity	No	No	No
Combined requirements	No	No	No
Requirements Gold-Plating	No	No	No
Use of non-standard hardware	No	No	No
Conformance with business goals	Yes	Yes	Yes
Premature Design	Yes	Yes	Yes
Requirements realism	Yes	Yes	Yes
Requirements testability	Yes	Yes	Yes

5 Classification on Faceted approach			
	Req 1	Req 2	Req 3
System	Yes	Yes	Yes
User-interface	Yes	Yes	No
Database	Yes	Yes	No
Communications	No	No	Yes

6 Requirements Validation	
Are the requirements complete?	Yes
Are the requirements consistent?	Yes
Are the requirements comprehensible?	Yes
Are the requirements ambiguous?	No
Is the requirements document structured	Yes
Are the requirements traceable?	Yes
Does the requirements document as a whole?	Yes

7 Test cases

Requirement 1: Registration of a new customer	
Test ID	TC1
Priority level	High
Main Scenario	Successful registration
Pre-condition	Customer must enter the registration page
Test Steps	 enter email enter first name enter last name enter password enter phone number confirm sign up
Expected Result	Customer successfully registered in the Data-base and received a confirmation email
Status (Pass/Fail)	pass
Notes	- The test passes, if required input is valid

Requirement 2: Customer Sign in	
Test ID	TC2
Priority level	High
Main Scenario	Customer Sign in
Pre-condition	Customer already exists in the Database
Test Steps	 Click the login button The login form is presented Customer provides login details/ Email and password Click ok button
Expected Result	The customer should be able to login
Status (Pass/Fail)	pass
Notes	- The test passes, if customer details are match with the Database

Requirement 3: Payment authentication	
Test ID	TC3
Priority level	High
Main Scenario	Payment authenication
Pre-condition	 Customer is logged into the account Customer has chosen items
Test Steps	 Select payment method and submit Payment page will be represented Enter payment details Hit ok to complete the transaction
Expected Result	The payment transaction has been processed successfully
Status (Pass/Fail)	pass
Notes	- The test fails, if the third-party decline the transaction due to invalid credit card number or sufficient money