Faculty of Engineering and Applied Science

SOFE 3650U Software Design and Architectures

Bookstore Project Proposal

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Requirements for Online Book Store

Introduction

This document lists the functional and non-functional requirements for the Book Store. The requirements are grouped by their stakeholders, and functional and non-functional requirements are separated.

Stakeholders

C	Customers
O	Owner
E	Employee

General requirements

R1	The bookstore will provide *product inventory information.*	
R2	The bookstore will have a *registration system for all users.*	
R3	The bookstore will have a *search function for products.*	
R4	The bookstore will allow users *to add/remove books for purchase in the shopping cart.*	
R5	The bookstore will allow for *payments to be processed.*	
R6	The bookstore will be connected to a *DBMS to query information.*	
R7	The bookstore will allow methods to *update/remove/modify the inventory on the website.*	
R8	The bookstore will be available 24/7 access.	

Requirements of Customers

Functional requirements:

R9	The system will allow the user to create an account and log in with their details.	

R10	The system will provide the user with a search option to help the customer browse for books based on keyword, author, e.t.c.	
R11	The system will provide an option for customers to add books to their cart and a secure payment option.	
R12	The system will alert the customer if a certain item is unavailable or out of stock.	
R13	The system will give the customer the option to delete their account.	

Non-functional requirements:

R14	The user interface should be user-friendly.	
R15	The system should have good performance to ensure the customer can easily access the site.	
R16	The system must be secure to prevent personal information from being compromised.	

Requirements of Owner

Functional requirements:

R17	The system will provide the current book store's inventory.	
R18	The system will provide the sales made.	
R19	The system will have a unique login interface to ensure security for the owner to access the website and check private details.	
R20	The owner will be able to update the available products on the website.	
R21	The system will allow the owner to contact all registered users for promotions and discounts.	

Non-functional requirements:

R22	The user interface should be user-friendly	

R23	The system should have good performance to ensure the owner can easily update inventory when necessary.	
R24	The system must be secure to prevent personal information from being compromised.	
R25	The system should be easily maintainable to make changes in inventory when necessary.	

Requirements of Employee

Functional requirements:

R26	The system will allow the employee to add new products and remove old ones.	
R27	The system will notify the owner when the employee updates the system.	
R28	The system will allow the maintainer to modify, delete or add new accounts.	
R29	The system will display information on customer orders.	

Non-functional requirements:

R30	A simple user interface to update and make changes when necessary.	
R31	The system shall have high interoperability.	
R32	The system should have good scalability.	
R33	The system will be secure and protected.	