

**Faculty of Engineering and Applied Science**

**SOFE 3700U 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 |
| M | System Maintainer |

***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 stores 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 System Maintainer***

*Functional requirements:*

| **R26** | The system will allow the maintainer to add new products and remove old ones |  |
| --- | --- | --- |
| **R27** | The system will notify the owner when the maintainer updates the system |  |
| **R28** | The system will allow maintainer to modify, delete or add new accounts |  |

*Non-functional requirements:*

| **R29** | A simple user interface to update and make changes when necessary |  |
| --- | --- | --- |
| **R30** | The system shall have high interoperability |  |
| **R31** | The system should have good scalability |  |
| **R32** | The system will be secure and protected. |  |