Vision Document

Online Book Store

Version 1.0

Vamsi Krishna Mummaneni

CIS 895 – MSE Project

KSU

Major Professor

Dr. Torben Amtoft
# Table of Contents

1. Introduction 3  
   1.1. Purpose and Motivation 3  
2. Project Overview 3  
   2.1. Background 3  
3. Requirement Specifications 4  
   3.1. Main Requirements 4  
   3.2. Critical Use Case Requirements 4  
   3.3. Use Case Diagram 6
1. Introduction

1.1 Purpose and Motivation

The main objective of the project is to create an online book store that allows users to search and purchase a book based on title, author and subject. The selected books are displayed in a tabular format and the user can order their books online through credit card payment. Books that have discount prices are identified using special images.

The motivation to create this project has many sources
- Interest to develop a good user friendly website with many online transactions using a database.
- To increase my knowledge horizon in technologies like .NET, SQL, CSS, HTML.
- To gain good experience in .NET before joining in a full time job.

2. Project Overview

2.1 Background

There are many online book stores like Powells, Amazon which were designed using html. I also want to develop a similar website using .NET, SQL Server.

Online Book store is an online web application where the customer can purchase books online. Through a web browser the customers can search for a book by its title or author, later can add to the shopping cart and finally purchase using credit card transaction. The customer can login using his account details or new customers can set up an account very quickly. They should give the details of their name, contact number and shipping address. The books are divided into many categories based on subject like Software, Database, English, Architecture etc.
3. Requirement Specifications

All the requirements are specified using OCL a software specification language in the second phase of my presentation.

3.1 Main Requirements

The major requirement is to create a good automated user friendly website for users to purchase selected books online.

The other major requirements include web browser like mozilla or internet explorer to access the website.

3.2 Critical Use Case Requirements

3.2.1 Browse website

Here the user can perform three main roles.

1. He can search for a book using a keyword which specifies the book’s title or author. The search will display the details of the book in a tabular format.

2. He can browse different book categories based on subject Like Software, Database, English, Architecture etc.
3. He can view the details of a particular book which includes special discount price, title, author and the actual list price.

3.2.2 Login

The user should login using his username and password. A new user can sign up for an account by completing the details in the sign up form. The user login information will be validated and authenticated by comparing with the details in the database. If the login information is incorrect an error message will be displayed on the screen asking for correct information. Multiple unsuccessful logins may block the user account.

3.2.3 Manage Account

The user can edit, delete or update his account details. The details include his first name, last name, shipping address, billing address and credit card information.

3.2.4 Shopping Cart

The user can manage his shopping cart by adding and deleting books into the cart. After updating the shopping cart the user will check out and complete the billing information. His credit card information will be validated and authenticated for a successful money transaction. If the credit card information is invalid an error message will be displayed. User can change or use the same billing and shipping information in his account. After completing a successful transaction your order will be shipped in few days message will be displayed.
3.3 UseCase Diagram

- Customer
  - Browse website
  - Search
  - Manage Account
  - Place order
  - Manage Shopping Cart
  - Confirm order

- Manager
  - Approve Order

- Postman
  - Ship Order