



FPT UNIVERSITY

Book Management
Software Requirement Specification

-HCM, DEC 2023-

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I. Overview

1. Introduction

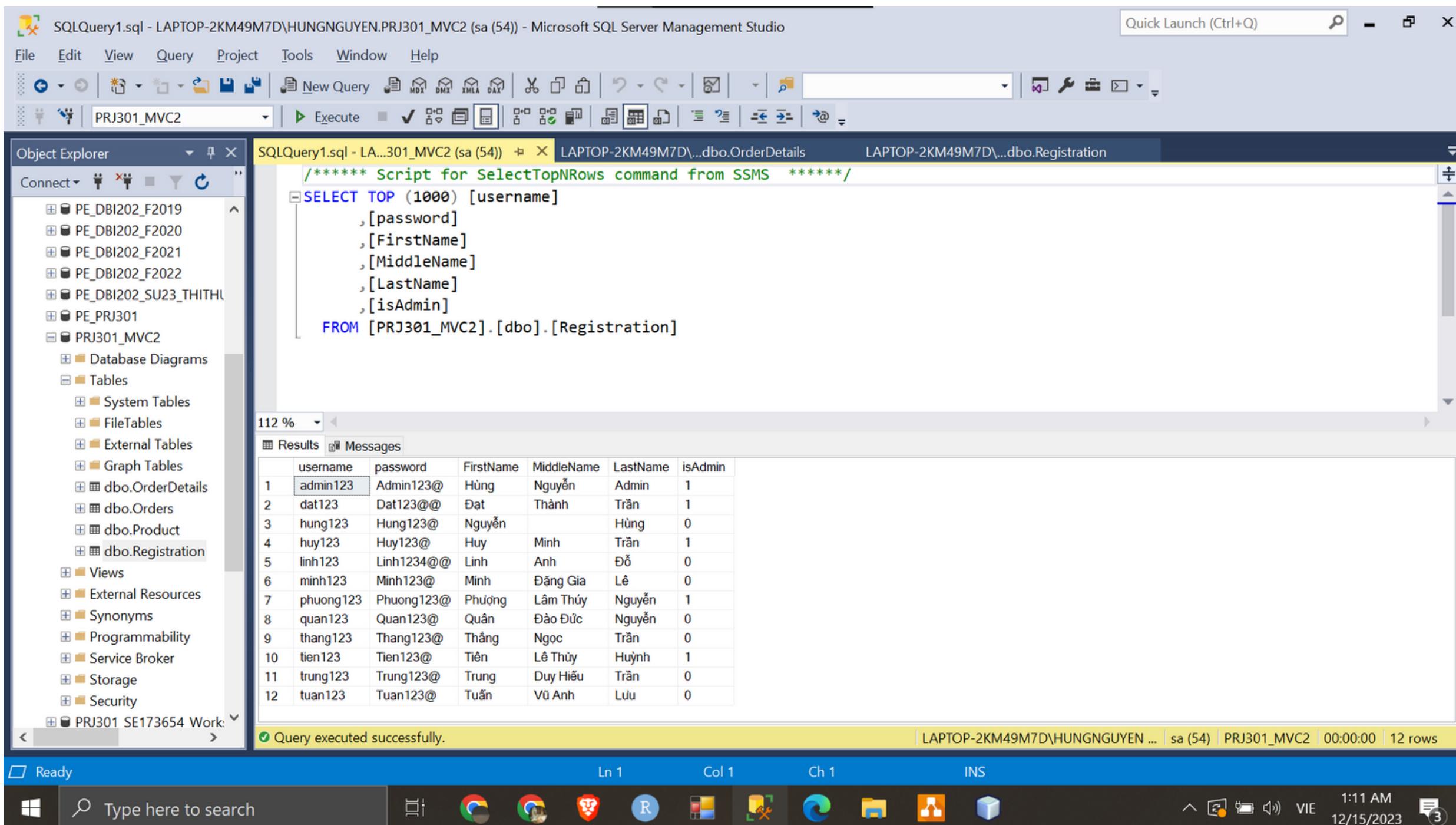
The project is a website that sells books. There are 2 roles: Admin and User. User can purchase books without login, instead they can buy them directly from the web and leave information so the order of books can be delivered.

Using the admin role, admin can update his/her account or update and delete user account. The admin can look up the user's order and order details in database system.

2. Database

- Database name: PRJ301_MVC2

- Registration



The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "SQLQuery1.sql - LAPTOP-2KM49M7D\HUNGNGUYEN.PRJ301_MVC2 (sa (54)) - Microsoft SQL Server Management Studio". The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar has various icons for file operations like New Query, MDX, DMX, XMLA, DAX, and others. The Object Explorer on the left lists several databases and their objects, including PE_DBI202_F2019 through PE_DBI202_F2022, PE_DBI202_SU23_THITHU, PE_PRJ301, and PRJ301_MVC2, along with tables like OrderDetails, Orders, Product, and Registration. The main central pane displays a T-SQL script:

```
***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [username]
    ,[password]
    ,[FirstName]
    ,[MiddleName]
    ,[LastName]
    ,[isAdmin]
FROM [PRJ301_MVC2].[dbo].[Registration]
```

The Results tab shows the output of the query, which is a table with 12 rows of user registration data:

	username	password	FirstName	MiddleName	LastName	isAdmin
1	admin123	Admin123@	Hùng	Nguyễn	Admin	1
2	dat123	Dat123@@	Đạt	Thành	Trần	1
3	hung123	Hung123@	Nguyễn		Hùng	0
4	huy123	Huy123@	Huy	Minh	Trần	1
5	linh123	Linh1234@@	Linh	Anh	Đỗ	0
6	minh123	Minh123@	Minh	Đặng Gia	Lê	0
7	phuong123	Phuong123@	Phương	Lâm Thúy	Nguyễn	1
8	quan123	Quan123@	Quân	Đào Đức	Nguyễn	0
9	thang123	Thang123@	Thắng	Ngọc	Trần	0
10	tien123	Tien123@	Tiên	Lê Thùy	Huỳnh	1
11	trung123	Trung123@	Trung	Duy Hiếu	Trần	0
12	tuan123	Tuan123@	Tuấn	Vũ Anh	Lưu	0

At the bottom of the results pane, a message says "Query executed successfully." The status bar at the bottom right shows the connection information: "LAPTOP-2KM49M7D\HUNGNGUYEN ... | sa (54) | PRJ301_MVC2 | 00:00:00 | 12 rows". The taskbar at the very bottom includes icons for Start, Task View, Search, and various system applications like File Explorer, Edge, and Task Manager.

● Product

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "SQLQuery2.sql - LAPTOP-2KM49M7D\HUNGNGUYEN.PRJ301_MVC2 (sa (55)) - Microsoft SQL Server Management Studio". The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar has various icons for database management tasks.

The Object Explorer on the left lists databases: PE_DBI202_F2019, PE_DBI202_F2020, PE_DBI202_F2021, PE_DBI202_F2022, PE_DBI202_SU23_THITHU, PE_PRJ301, and PRJ301_MVC2. Under PRJ301_MVC2, the Tables node is expanded, showing System Tables, FileTables, External Tables, Graph Tables, dbo.OrderDetails, dbo.Orders, dbo.Product, dbo.Registration, Views, External Resources, Synonyms, Programmability, Service Broker, Storage, and Security.

The main window displays a query results grid titled "Results". The query executed was:

```
***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [SKU]
    ,[Name]
    ,[Price]
    ,[Description]
    ,[Quantity]
FROM [PRJ301_MVC2].[dbo].[Product]
```

The results grid shows 12 rows of data:

	SKU	Name	Price	Description	Quantity
1	BOOK00001	Java	100000.00	Java Fundamental Book	90
2	BOOK00002	MVC2	90000.00	MVC2 Fundamental Book	80
3	BOOK00003	Tomcat	80000.00	Tomcat Fundamental Book	70
4	BOOK00004	JDK	70000.00	JDK Fundamental Book	60
5	BOOK00005	Servlet	60000.00	Servlet Fundamental Book	47
6	BOOK00006	JavaBeans	50000.00	JavaBeans Fundamental Book	40
7	BOOK00007	JSP	40000.00	JSP Fundamental Book	30
8	BOOK00008	JDBC	30000.00	JDBC Fundamental Book	17
9	BOOK00009	Scripting Elements	20000.00	Scripting Elements Fundamental Book	0
10	BOOK00010	EL	10000.00	EL Fundamental Book	0
11	BOOK00011	Java Script	500000.00	Java Script Fundamental Book	9
12	BOOK00012	Angular	70000.00	Angular Fundamental Book	8

At the bottom, a status bar shows "Query executed successfully.", the server name "LAPTOP-2KM49M7D\HUNGNGUYEN ... | sa (55)", the database "PRJ301_MVC2", the duration "00:00:00", and the number of rows "12 rows". The taskbar at the bottom includes icons for Start, Search, Task View, Edge, File Explorer, File History, Task Scheduler, Task View, Volume Status, and Task View.

● Orders

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "SQLQuery3.sql - LAPTOP-2KM49M7D\HUNGNGUYEN.PRJ301_MVC2 (sa (57)) - Microsoft SQL Server Management Studio". The menu bar includes File, Edit, View, Query, Project, Tools, Window, and Help. The toolbar has various icons for database management tasks.

The Object Explorer on the left lists several databases: PE_DBI202_F2019, PE_DBI202_F2020, PE_DBI202_F2021, PE_DBI202_F2022, PE_DBI202_SU23_THITHU, PE_PRJ301, PRJ301_MVC2, and PRJ301_SE173654 Work. Under PRJ301_MVC2, the Tables node is expanded, showing System Tables, FileTables, External Tables, Graph Tables, dbo.OrderDetails, dbo.Orders, dbo.Product, dbo.Registration, Views, External Resources, Synonyms, Programmability, Service Broker, Storage, and Security.

The central pane displays three query windows:

- SQLQuery3.sql - LA...301_MVC2 (sa (57))
- SQLQuery2.sql - LA...301_MVC2 (sa (55))
- SQLQuery1.sql - LA...301_MVC2 (sa (54))

The SQLQuery3.sql window contains the following script:

```
***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [OrderID]
      ,[Name]
      ,[Address]
      ,[Date]
      ,[Total]
  FROM [PRJ301_MVC2].[dbo].[Orders]
```

The Results pane shows the output of the query:

	OrderID	Name	Address	Date	Total
1	1	Nguyễn Hùng	33/39 Quốc Hương, Thảo Điền	2023-12-05 13:35:33.153	60000.00
2	2	Nguyễn Hùng	33/39 Quốc Hương, Thảo Điền	2023-12-05 13:36:16.580	30000.00
3	3	Nguyễn Hùng	33/39 Quốc Hương, Thảo Điền	2023-12-13 13:38:41.497	140000.00
4	4	Nguyễn Hùng	33/39 Quốc Hương, Thảo Điền	2023-12-14 23:30:38.453	210000.00
5	5	Nguyễn Hùng	33/39 Quốc Hương, Thảo Điền	2023-12-14 23:33:37.287	30000.00

The status bar at the bottom indicates "Query executed successfully.", the connection details "LAPTOP-2KM49M7D\HUNGNGUYEN ... | sa (57) | PRJ301_MVC2 | 00:00:00 | 5 rows", and the system time "1:15 AM 12/15/2023".

● OrderDetails

SQLQuery4.sql - LAPTOP-2KM49M7D\HUNGNGUYEN.PRJ301_MVC2 (sa (58)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

PRJ301_MVC2 Execute

SQLQuery4.sql - LA...301_MVC2 (sa (58)) SQLQuery3.sql - LA...301_MVC2 (sa (57)) SQLQuery2.sql - LA...301_MVC2 (sa (55))

```
***** Script for SelectTopNRows command from SSMS *****/
SELECT TOP (1000) [SKU]
    ,[Name]
    ,[Price]
    ,[Quantity]
    ,[Total]
    ,[OrderID]
FROM [PRJ301_MVC2].[dbo].[OrderDetails]
```

112 %

Results Messages

	SKU	Name	Price	Quantity	Total	OrderID
1	BOOK00009	Scripting Elements	20000.00	3	60000.00	1
2	BOOK00008	JDBC	30000.00	1	30000.00	2
3	BOOK00009	Scripting Elements	20000.00	7	140000.00	3
4	BOOK00005	Servlet	60000.00	3	180000.00	4
5	BOOK00008	JDBC	30000.00	1	30000.00	4
6	BOOK00008	JDBC	30000.00	1	30000.00	5

Query executed successfully.

LAPTOP-2KM49M7D\HUNGNGUYEN ... | sa (58) | PRJ301_MVC2 | 00:00:00 | 6 rows

Ready Ln 1 Col 1 Ch 1 INS

Type here to search

1:17 AM 12/15/2023

3. System Functions



User Web Application

#	Feature	Screen	Description
1	Login account	Login page	Contains text box to input username, password Login button, reset button Register link, shopping book link
2	Create new account	Sign up page	Contains text box to input user information Signup button, reset button Login link
3	Manage web	Admin page	Contains search form to input user name, Can manage users (update, delete)

User Web Application

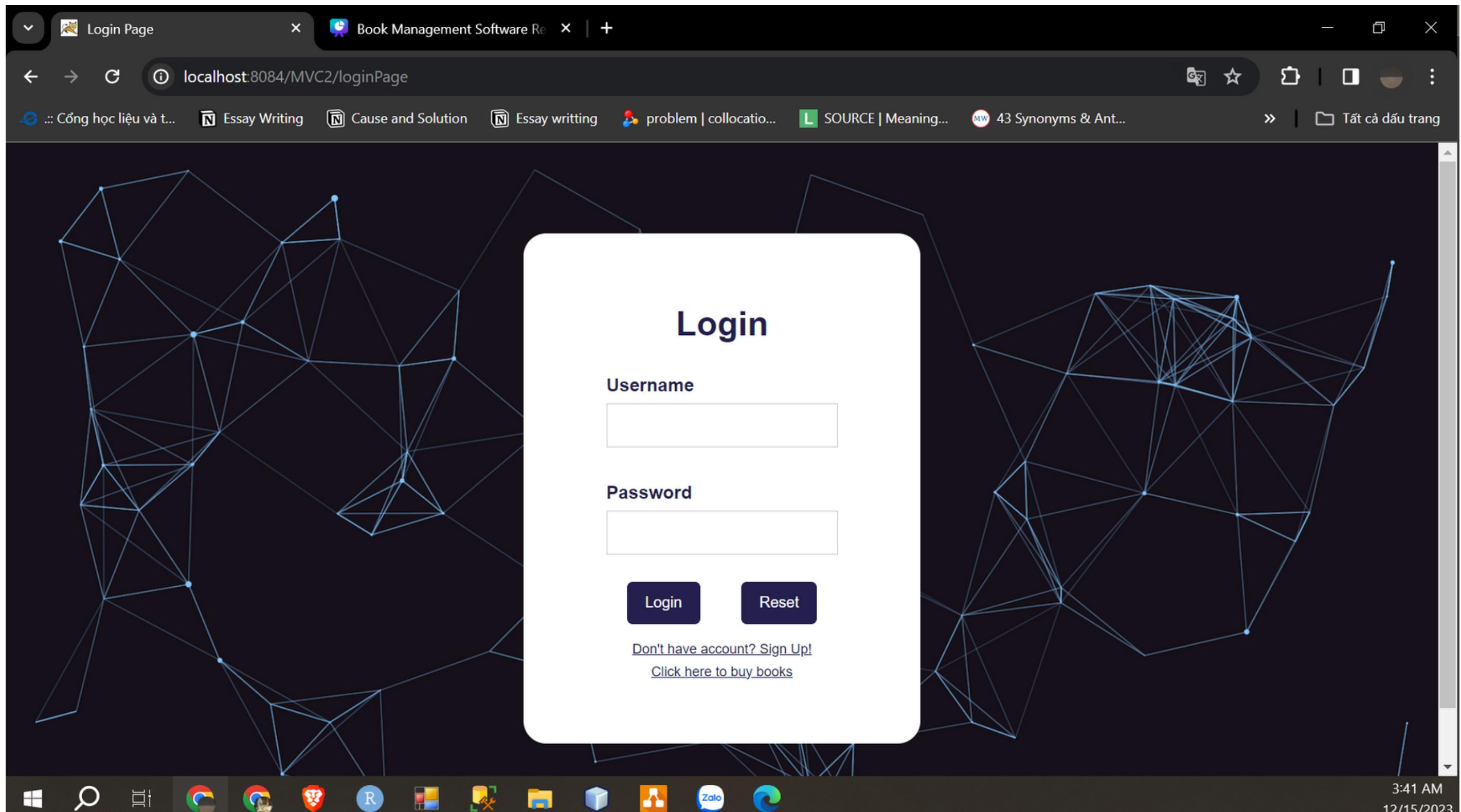
#	Feature	Screen	Description
4	Get books list	Book store	Contains list of books Add button View Cart button
5	View Cart	Cart page	Contains books that user click “add” button “remove” can remove book that user click in the check box “Check out” button “Add more” link to add more book from book store
6	Check out	Check out page	Users have to fill information: Name, Address Check out button

User Web Application

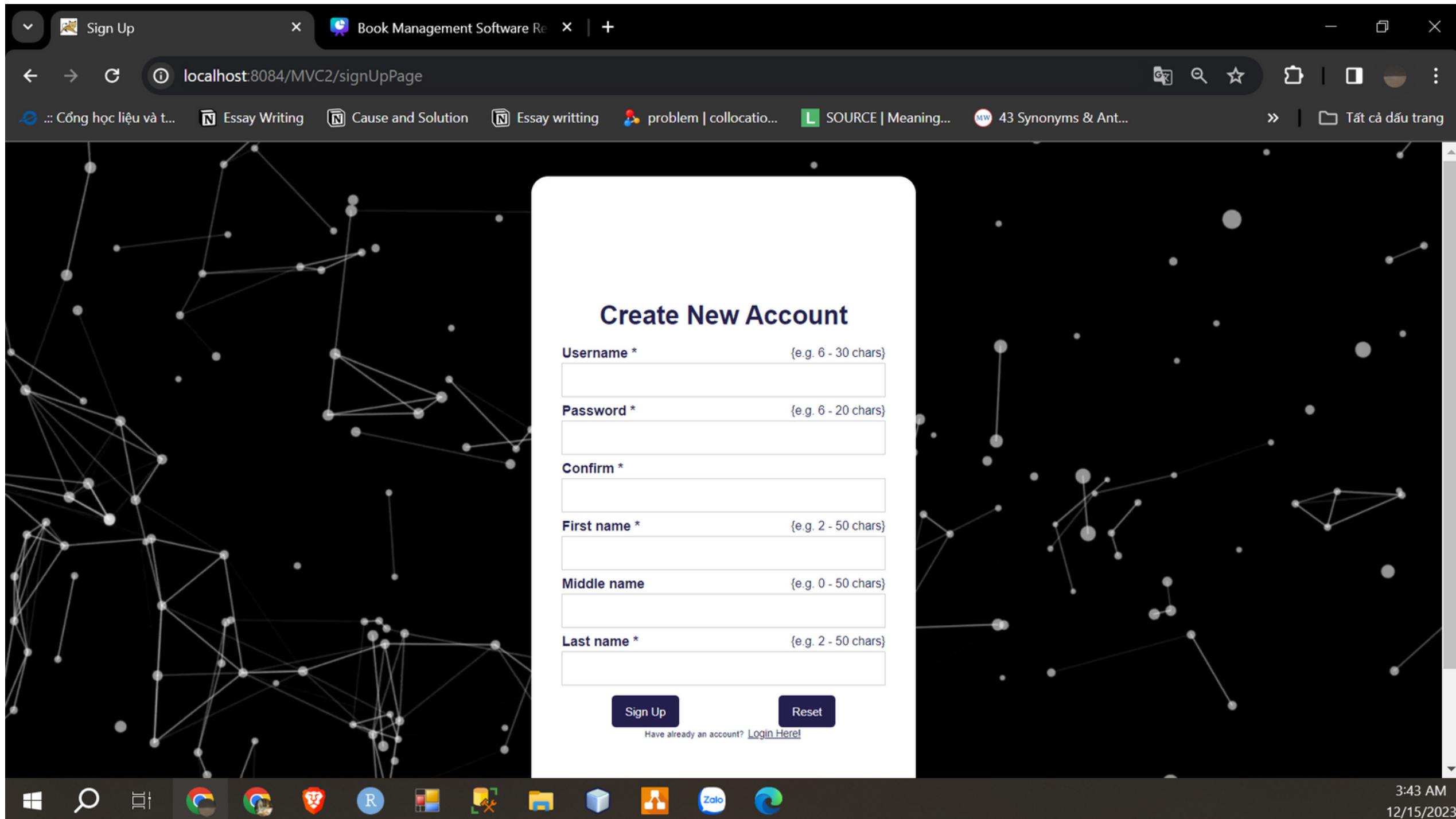
#	Feature	Screen	Description
7	Invoice	Invoice page	Print out an invoice containing the information the user has entered and the order and total of order

II. Functional Requirement

1. Login



2.Register



3. Manage Web

The screenshot shows a web browser window titled "Book Management Software Re" with the URL "localhost:8084/MVC2/searchAction?txtSearchValue=n". The page displays a search interface for accounts. At the top, it says "Welcome, Admin Nguyễn Hùng" and has a "Log Out" link. Below this is a search bar with the placeholder "Search Value" and a "Search" button. A table lists 10 accounts with columns for No., Username, Password, Full name, Role, Delete, and Update. The "Delete" column contains checkboxes, and the "Update" column contains buttons. The accounts are:

No.	Username	Password	Full name	Role	Delete	Update
1	admin123	Admin123@	Admin Nguyễn Hùng	<input checked="" type="checkbox"/>		
2	dat123	Dat123@@	Trần Thành Đạt	<input checked="" type="checkbox"/>	<button>Delete</button>	<button>Update</button>
3	hung123	Hung123@	Hùng Nguyễn	<input type="checkbox"/>	<button>Delete</button>	<button>Update</button>
4	huy123	Huy123@	Trần Minh Huy	<input checked="" type="checkbox"/>	<button>Delete</button>	<button>Update</button>
5	linh123	Linh1234@@	Đỗ Anh Linh	<input type="checkbox"/>	<button>Delete</button>	<button>Update</button>
6	minh123	Minh123@	Lê Đặng Gia Minh	<input type="checkbox"/>	<button>Delete</button>	<button>Update</button>
7	phuong123	Phuong123@	Nguyễn Lâm Thúy Phượng	<input checked="" type="checkbox"/>	<button>Delete</button>	<button>Update</button>
8	quan123	Quan123@	Nguyễn Đào Đức Quân	<input type="checkbox"/>	<button>Delete</button>	<button>Update</button>
9	thang123	Thang123@	Trần Ngọc Thắng	<input type="checkbox"/>	<button>Delete</button>	<button>Update</button>
10	tien123	Tien123@	Huỳnh Lê Thùy Tiên	<input checked="" type="checkbox"/>	<button>Delete</button>	<button>Update</button>

The browser's taskbar at the bottom shows various pinned icons, and the system tray indicates the date and time as "3:45 AM 12/15/2023".

4. Book Store

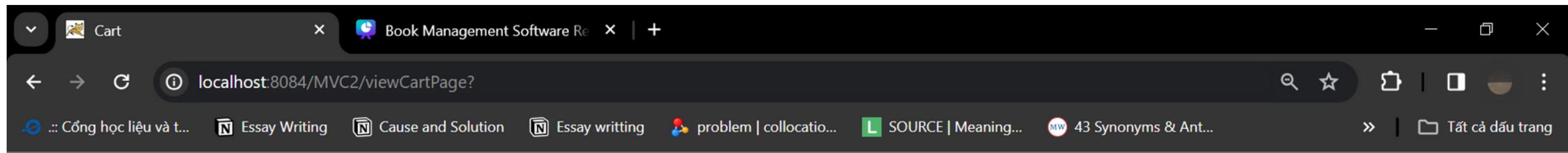
Welcome to PRJ301 Book Store

No.	SKU	Name	Price	Description	Quantity	Add to Cart
1	BOOK00001	Java	100.000 đ	Java Fundamental Book	89	<button>Add</button>
2	BOOK00002	MVC2	90.000 đ	MVC2 Fundamental Book	79	<button>Add</button>
3	BOOK00003	Tomcat	80.000 đ	Tomcat Fundamental Book	70	<button>Add</button>
4	BOOK00004	JDK	70.000 đ	JDK Fundamental Book	60	<button>Add</button>
5	BOOK00005	Servlet	60.000 đ	Servlet Fundamental Book	47	<button>Add</button>
6	BOOK00006	JavaBeans	50.000 đ	JavaBeans Fundamental Book	40	<button>Add</button>
7	BOOK00007	JSP	40.000 đ	JSP Fundamental Book	30	<button>Add</button>
8	BOOK00008	JDBC	30.000 đ	JDBC Fundamental Book	17	<button>Add</button>
9	BOOK00009	Scripting Elements	20.000 đ	Scripting Elements Fundamental Book	0	This book is sold out
10	BOOK00010	EL	10.000 đ	EL Fundamental Book	0	This book is sold out
11	BOOK00011	Java Script	500.000 đ	Java Script Fundamental Book	5	<button>Add</button>
12	BOOK00012	Angular	70.000 đ	Angular Fundamental Book	8	<button>Add</button>

[View Your Cart](#)

3:48 AM
12/15/2023

5. Cart Page



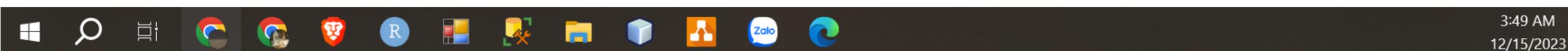
Your Cart

No.	SKU	Name	Description	Quantity	Price	Remove	Check Out
1	BOOK00002	MVC2	MVC2 Fundamental Book	1	90.000đ	<input type="checkbox"/>	<input type="checkbox"/>
2	BOOK00001	Java	Java Fundamental Book	1	100.000đ	<input type="checkbox"/>	<input type="checkbox"/>

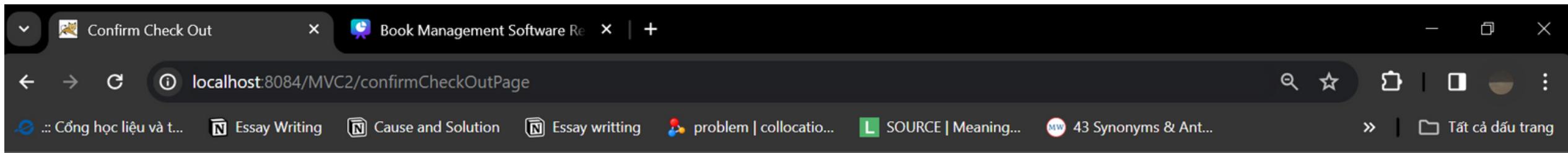
[Add More Books to Your Cart](#)

[Remove Selected Books](#)

[Check Out Selected Books](#)



6. Check out Page



7. Invoice Page

The screenshot shows a web browser window titled "Book Management Software Re" with the URL "localhost:8084/MVC2/checkOutSuccessPage". The main content is titled "Check Out Success" and displays a receipt for an order from "PRJ301 Book Store". The receipt includes the following details:

Your Receipt
PRJ301 Book Store
Order ID: 8
Date: 2023-12-15 03:51:31.387
Customer Name: Nguyễn Hùng
Customer Address: 33/39 Quốc Hương, Thảo Điền

SKU	Name	Quantity	Price	Money
BOOK00002	MVC2	1	90.000đ	90.000đ
				Total 90.000đ

At the bottom of the page are two buttons: "Go Shopping" and "View Cart".

The taskbar at the bottom of the screen shows various pinned icons, including Google Chrome, File Explorer, and Zalo, along with the system clock showing 3:51 AM on 12/15/2023.