

THE REPORT OF BOOK MANAGEMENT SYSTEM

Course: PRJ321 Java Web Application Development

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1. A Team Introduction

1.1 Group 5

- Tran Khanh Vy
- Cao Gia Hao
- Hoang Gia Thien Phuc

1.2 Contact information

khanhvy@gmail.com (Tran Khanh Vy)

giahao@gmail.com (Cao Gia Hao)

thienphuccoder@gmail.com (Hoang Gia Thien Phuc)

2. Use Case Study

- Book management system is to construct an online-shopping books web pages to manage books, employees and customers can search and buy books.
- System includes 4 actors: Guest, Customer, Employee And Manager
- Here are some of the features offered in the system:
 - Sign up Account: user can sign up to be a customer of the system
 - Search/View list of Books: user can view list of books and detailed of a book.
 - Login: authentication and authorization is required
 - Manage User's Profile: self-manage profile, can update information and disable account.
 - Manage Book Cart: required user can add book to cart and remove book from cart.
 - Order Book: This system is a "Online Order System", so this function needs to implement to let customer can choose and buy the books they want.
 - Manage Book: This system requires user can add new, update or disable book.
 - Manage Employees: requires user can add new, update or disable employee, view list of employee and search employee by specific conditions.

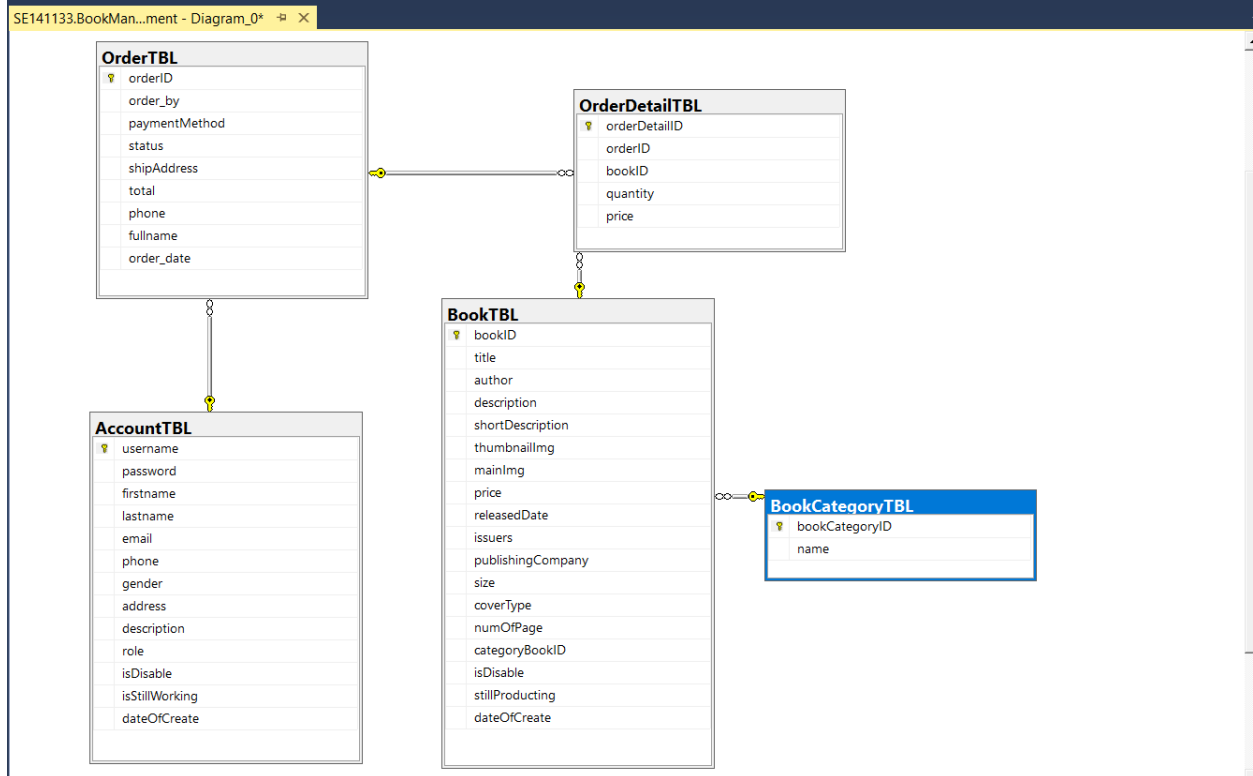
3. Database Design

- A book belongs to a specific category of books and each category must contains at least 1 book.
- A customer can have many orders, each customer have an account to access system
- An order can contain 1 or many books
- A book can contain in 1 or many orders
- Account contains role properties to let system know who login (customer, employee or manager)

3.1 Logical Design

- CategoryBookTBL(**bookCategoryID(PK) varchar(10)**, name varchar(50)).
- BookTBL(**bookID(PK) varchar(10)**, title varchar(50), author varchar(100), description varchar(5000), shortDescription varchar(100), thumbnailImg varchar(100), mainImg varchar(4000), price decimal(18,2), releasedDate datetime, issuers varchar(100), publishingCompany varchar(100), size varchar(100), coverType varchar(100), numOfPage int, **categoryBookID(FK) varchar(10)**).
- AccountTBL(**username(PK) varchar(10)**, password varchar(50), firstname varchar(30), lastname varchar(30), email varchar(100), phone varchar(20), gender varchar(20), address varchar(200), description varchar(500), role varchar(20)).
- OrderTBL(**orderID(PK) varchar(50)**, **order_by(PK) varchar(10)**, paymentMethod varchar(50), status varchar(20), shipAddress varchar(200), total decimal(18,2), phone varchar(20), order_date datetime).
- OrderDetailTBL(**orderDetailID(PK) varchar(50)**, **orderID(FK) varchar(50)**, **bookID(FK) varchar(10)**, quantity int, price decimal(18,2)).

3.2 Physical Design



4. System Design

4.1 Implementation

- Struts2: Struts2 provides configurable MVC components. It contains Filter Dispatcher act as a main controller, receiving request from client or from another controller, call model(actions) and send response to user. Nowadays, struts2 provides Annotation just need to declare the action above the Action based on ActionSupport class's function.
 - Struts.xml: configure action and class leading to it.

```
<!DOCTYPE struts PUBLIC
"-//Apache Software Foundation//DTD Struts Configuration 2.0//EN"
"http://struts.apache.org/dtds/struts-2.0.dtd">

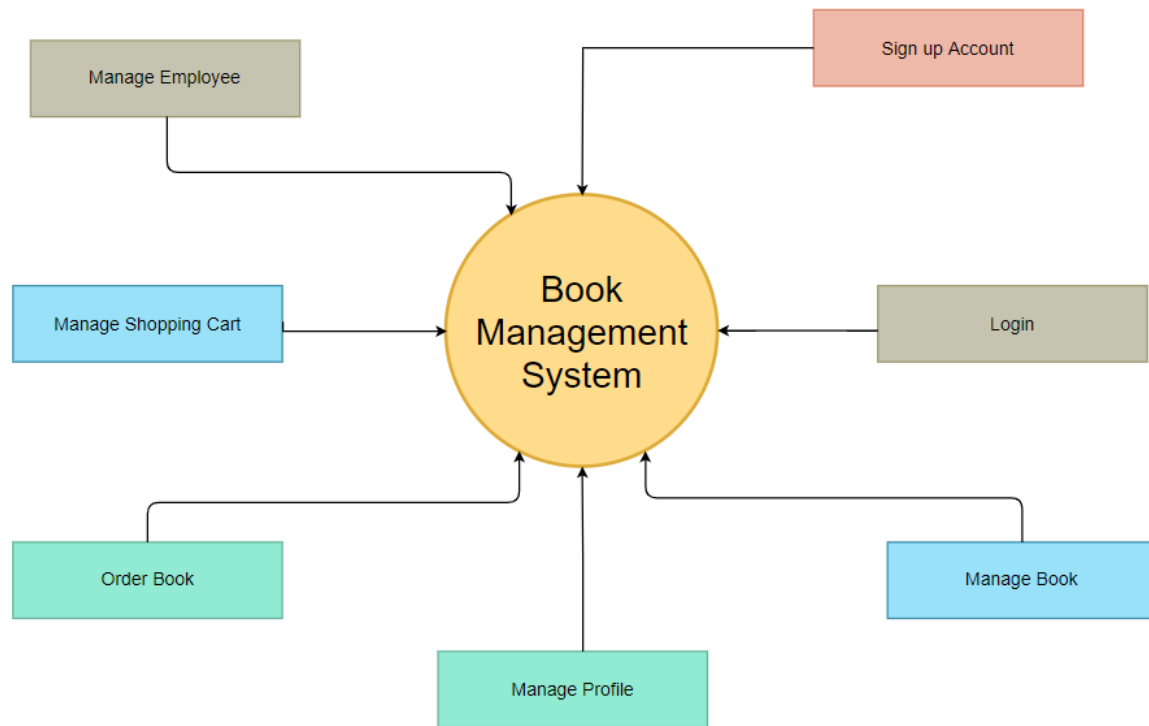
<struts>
  <!-- Configuration for the default package. -->
  <package name="default" extends="struts-default" namespace="/">
    <action name="" class="action.LoadAction">
      <result name="guest">/guest/guestHomePage.jsp</result>
      <result name="customerTag">/user/userHomePage.jsp</result>
      <result name="employeeTag">/employee/employeeHomePage.jsp</result>
      <result name="managerTag">/manager/managerHomePage.jsp</result>
    </action>
    <action name="login" class="action.LoginAction">
      <result name="error">login.jsp</result>
      <result name="success" type="redirectAction">
        <param name="actionName">${}</param>
      </result>
      <result name="customerCart">/user/userCart.jsp</result>
    </action>
    <action name="listBookByCategory" class="action.LoadBookByCategoryAction">
      <result name="guestTag">/guest/guestHomePage.jsp</result>
      <result name="customerTag">/user/userHomePage.jsp</result>
      <result name="employeeTag">/employee/employeeHomePage.jsp</result>
      <result name="managerTag">/manager/managerHomePage.jsp</result>
    </action>
    <action name="searchBook" class="action.SearchBookAction">
      <result name="guestTag">/guest/guestHomePage.jsp</result>
      <result name="customerTag">/user/userHomePage.jsp</result>
      <result name="employeeTag">/employee/employeeHomePage.jsp</result>
      <result name="managerTag">/manager/managerHomePage.jsp</result>
    </action>
    <action name="bookByID" class="action.BookByIDAction">
      <result name="guestTag">/guest/guestBookDetail.jsp</result>
    </action>
  </package>
</struts>
```


- Annotation: declare the action above the Action based on ActionSupport class's function

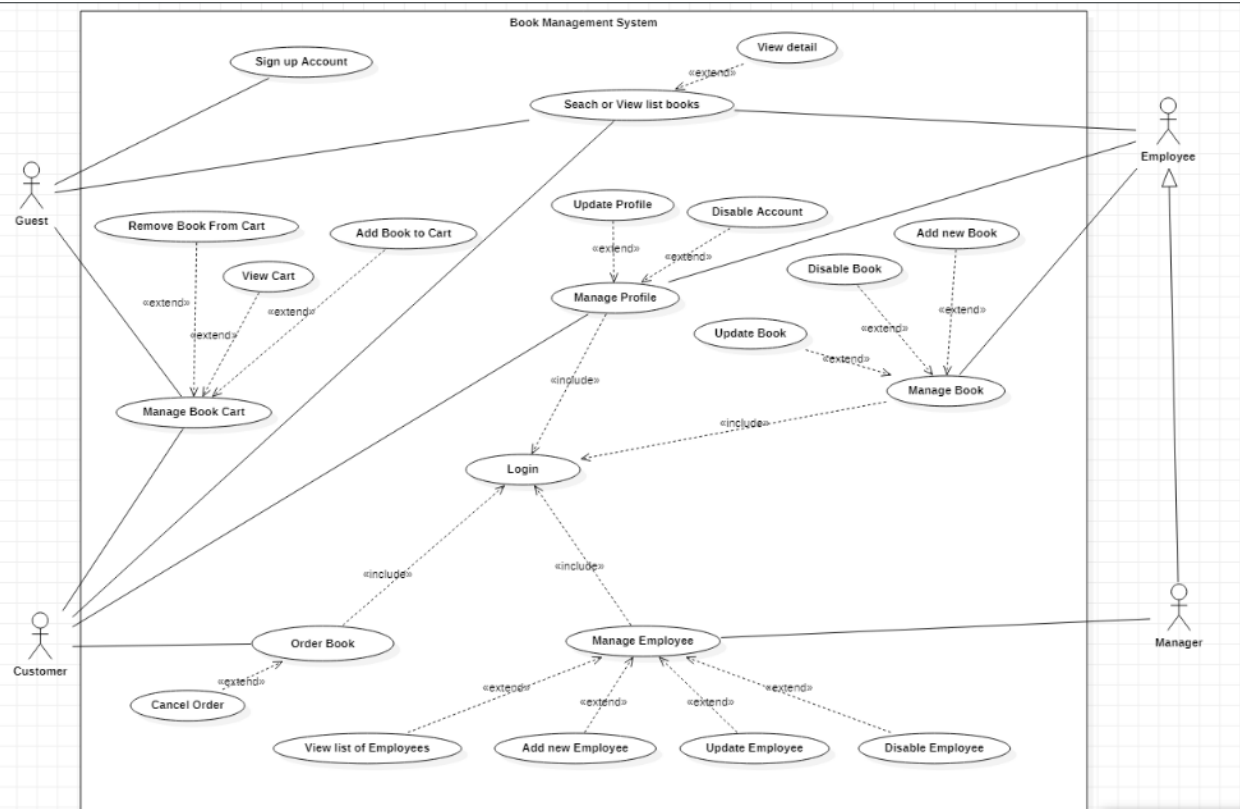
```
@Action(value = "/manager/updateEmployee",
        results = {
            @Result(name = "success", type = "redirectAction", location = "loadEmployee"),
            @Result(name = "error", location = "/manager/managerEmployeeFormUpdate.jsp"),
            @Result(name = "invalid", location = "/manager/managerEmployeeFormUpdate.jsp")
        })
public String updateEmployee() throws Exception {
    String url = ERROR;
    AccountDAO dao = new AccountDAO();
    boolean valid = true;
    AccountErrorObject errorObj = new AccountErrorObject();
    if (email.isEmpty()) {
        errorObj.setEmailError("Email is not supposed to be empty");
        valid = false;
    }
    if (!email.trim().matches("\\w+@\\w+[.]\\w+(\\.\\w+)?")) {
        errorObj.setEmailError("Email must be like abc@abc.abc");
        valid = false;
    }
    if (firstname.isEmpty()) {
        errorObj.setFirstnameError("First name is not supposed to be empty");
        valid = false;
    }
    if (lastname.isEmpty()) {
        errorObj.setLastnameError("Last name is not supposed to be empty");
        valid = false;
    }
    if (!phone.isEmpty() && !phone.matches("[0-9]{10}")) {
        errorObj.setPhoneError("Phone must be 10 numbers");
    }
}
```

- MVC2: Controller uses to receive requests from client or from another controller, call model, send response to view. Model processes data under DB. View is what user interacts.
- Microsoft SQL Server: connect to DB by sqljdbc.jar
- How we implemented:
 - Create a web-based application use struts2 framework
 - Apply template we found free on the Internet
 - Edit some parts to apply struts2 form
 - Connect to DB by mssql-jdbc-8.4.0.jre8.jar
 - Create data transfer object classes: CategoryDTO, BookDTO, AccountDTO, OrderDTO, OrderLineDTO
 - Create data access object classes: CategoryDAO, BookDAO, AccountDAO, OrderDAO
 - Create action classes: contains code to process data
 - Configure action in struts.xml. Some action we use Annotation

4.2 Context diagram



4.3 Use Case Diagram



4.4 Use Case Specification

4.4.1 Sign up Account

Participant Actor	Guest
Entry Condition	<ul style="list-style-type: none"> - Access website bookslife.com - Choose "Sign up" function
Basic flows	<ol style="list-style-type: none"> 1. System will display form to allow guest entry personal information (last name, first name, password, gender, email, phone, etc.) 2. Guest will fill all required information 3. Guest chooses send information to web server 4. System will check information, especially email and phone <ol style="list-style-type: none"> 4.1 If email and phone is existing, system will display warning message and do not allow users to create new account 4.2 Else, system will insert new account into DB and display login page
Exit Condition	Guest will have an active account

4.4.2 Search/View Book

Participant Actor	Guest, Customer, Employee, Manager
Entry Condition	<ul style="list-style-type: none">- Access website bookslife.com- Or search books by keyword
Basic flows	<ol style="list-style-type: none">1. System will display a list of books, which have title, image, price, short description, rating, etc.2. Users can click to books to see details of books(includes book's title, images, price, description, review, comment of buyers, some similar book suggestions with "Add to Cart" function).
Exit Condition	List of books

4.4.3 Login

Participant Actor	Customer, Employee, Manager
Entry Condition	<ul style="list-style-type: none">- Access website bookslife.com- Choose "Sign in" function
Basic flows	<ol style="list-style-type: none">1. System will display login form to let users input username and password2. Users entry username and password3. Users click to "Login" button4. System will check under DB if username and password are valid or not<ol style="list-style-type: none">4.1 If find username and password match with a record under DB, then login successfully and display Homepage suit with their role4.2 If not, system notifies that inputted username or password is invalid and back to step 1
Exit Condition	Login Successfully with authorization

4.4.4 Update Profile

Participant Actor	Customer, Employee
Entry Condition	<ul style="list-style-type: none">- Access website bookslife.com- Choose "Login" function- Login Successfully- Choose "Update Profile" function
Basic flows	<ol style="list-style-type: none">1. System will display customer's information with form to user can input2. Users change information3. Users chooses send information to web server4. System will ask users to confirm change by input user's password to confirm<ol style="list-style-type: none">a. If confirms successfully, system will update information of user into DB and notify that "Update successfully".b. If not, system notifies that inputted password is invalid and back to step 1, do not allow to update.
Exit Condition	An updated profile

4.4.5 Disable Account

Participant Actor	Customer
Entry Condition	<ul style="list-style-type: none">- Access website bookslife.com- Choose "Sign in" function- Login Successfully- Choose "Disable Profile" function
Basic flows	<ol style="list-style-type: none">1. System will display user's information with form to user can input2. User choose "Disable Account",3. System will warn user that this action can't be rollback and if want to reactive, user need to confirm email again.4. System will ask users to confirm change by input user's email and password to confirm<ol style="list-style-type: none">4.1 If confirms successfully, system will disable account, then logout and return to homepage.4.2 If not, system notifies that inputted email or password is invalid and back to step 1, do not allow to disable.
Exit Condition	An disable account

4.4.6 Add book to Cart

Participant Actor	Guest, Customer
Entry Condition	- Access website bookslife.com
Basic flows	<ol style="list-style-type: none">1. System will display a list of books2. User chooses the book they want3. User chooses send information to web server4. If the product exists in cart, increasing quantity of product up to 1. If not, then its quantity is 1.
Exit Condition	A shopping cart

4.4.7 View Cart

Participant Actor	Guest, Customer
Entry Condition	<ul style="list-style-type: none">- Access website bookslife.com- Add book to cart
Basic flows	<ol style="list-style-type: none">1. User chooses "View Cart" function2. System will display list of products that user added to cart
Exit Condition	A shopping cart

4.4.8 Remove Book from Cart

Participant Actor	Guest, Customer
Entry Condition	<ul style="list-style-type: none">- Access website bookslife.com- Need have book(s) in cart.- Click "View Cart" Function
Basic flows	<ol style="list-style-type: none">1. User chooses a book to remove from cart2. User chooses send information to web server3. System will delete book user choose from cart and display cart without deleted book
Exit Condition	A shopping cart

4.4.9 Order Book

Participant Actor	Customer
Entry Condition	<ul style="list-style-type: none">- Access website bookslife.com- User needs to sign in- Login Successfully with Customer role- Cart needs to contain 1 or more product- User chooses "View Cart" function
Basic flows	<ol style="list-style-type: none">1. User chooses send information of cart to web server2. System will display a form to let user input full name, phone, shipping information3. User needs to choose payment method: COD, Cash, ATM card, visa card or local card.4. User chooses send information to web server to confirm order5. System records new order and insert it into DB. If insert errors, system display error messages
Exit Condition	New order was made

4.4.10 Create new Book

Participant Actor	Employee, Manager
Entry Condition	<ul style="list-style-type: none">- Access website bookslife.com- Choose "Sign in" function- Login successfully with Employee, Manager role- Click to "Create new book" function
Basic flows	<ol style="list-style-type: none">1. System will display book form to user can input2. User inputs all required information3. User chooses send information to web server4. System will check validation<ol style="list-style-type: none">4.1 If valid, insert book into DB and display list book with new inserted book.4.2 If not, system will notify that action is failed and try again, back to step 1
Exit Condition	A new book

4.4.11 Update Book

Participant Actor	Employee, Manager
Entry Condition	<ul style="list-style-type: none">- Access website bookslife.com- Choose "Sign in" function- Login successfully with Employee, Manager role- Click to "Update book" function
Basic flows	<ol style="list-style-type: none">1. System will display a book form with information of the book which employee choose.2. User change information that need to update3. User choose send information to web server4. System will check validation

	2.1 If valid, update book into DB and notify update successfully. 2.2 If not, system will notify that action is failed and try again, back to step 1
Exit Condition	An updated book

4.4.12 Disable Book

Participant Actor	Employee, Manager
Entry Condition	<ul style="list-style-type: none"> - Access website bookslife.com - Choose "Sign in" function - Login successfully with Employee, Manager role - Click to "Update book" function
Basic flows	<ol style="list-style-type: none"> 1. System will display a book form with information of the book which employee choose. 2. User choose send information to web server 3. System will check the constraint the column "still in production" is true or not. If not, employee can disable the book. If true, system will notify that this book can not disable
Exit Condition	A disabled book

4.4.13 Create new Employee

Participant Actor	Manager
Entry Condition	<ul style="list-style-type: none"> - Access website bookslife.com - Choose "Sign in" function - Login Successfully with Manage role - Manager chooses "Create new Employee" function
Basic flows	<ol style="list-style-type: none"> 1. System will display employee form to manager can input 2. Manager inputs all required information. 3. Manager chooses send information to web server 4. System will check validation <ol style="list-style-type: none"> 4.1 If valid, insert employee into DB and display list employees with new inserted employee 4.2 If not, system will notify that action is failed and try again, back to step 1
Exit Condition	A new employee

4.4.14 Update Employee

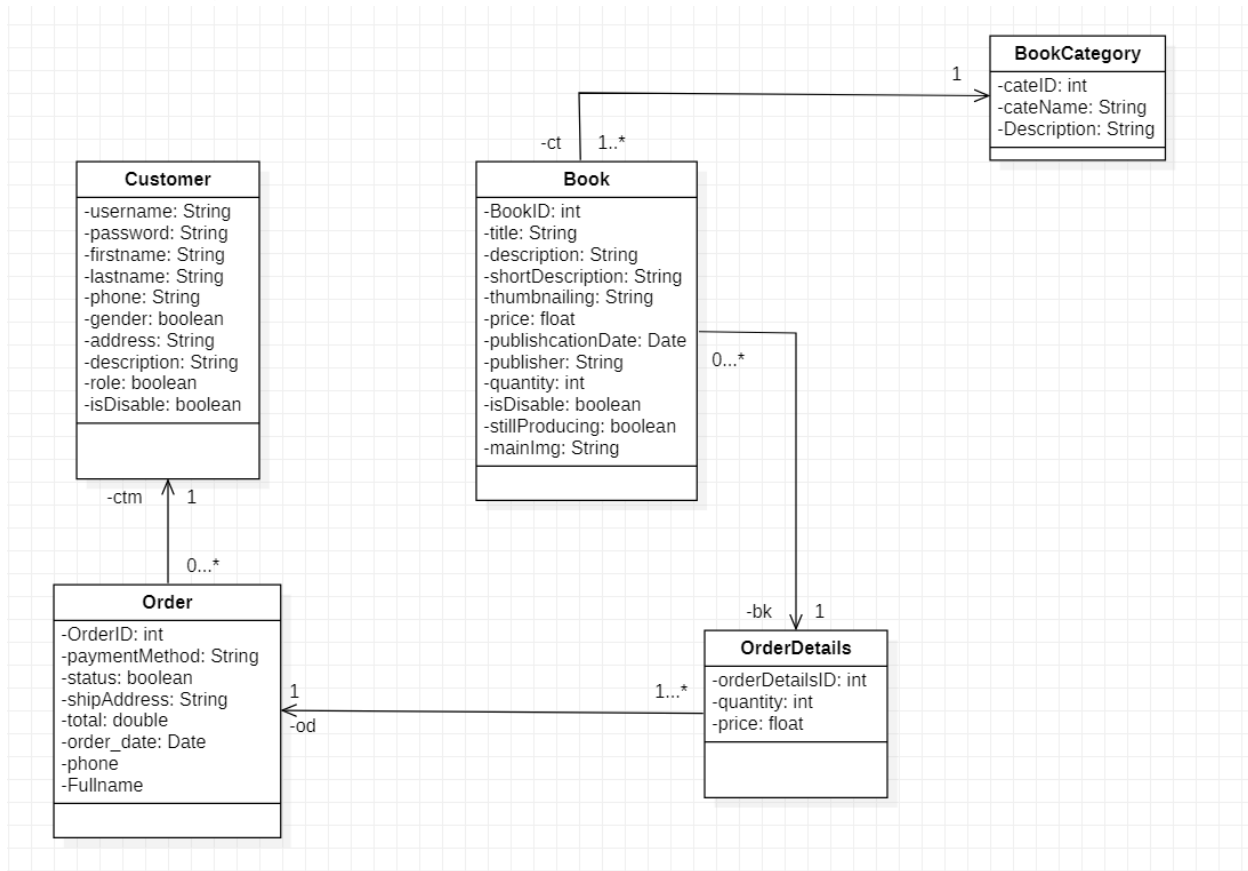
Participant Actor	Manager
Entry Condition	<ul style="list-style-type: none"> - Access website bookslife.com - Choose "Sign in" function - Login Successfully with Manage role - Manager chooses "Update Employee" function

Basic flows	<ol style="list-style-type: none"> 1. System will display an employee form with information of the employee which manager choose. 2. Manager changes information that need to update 3. Manager chooses send information to web server 4. System will check validation <ol style="list-style-type: none"> 4.1 If valid, update into DB and notify update successfully 4.2 If not, system will notify that action is failed and try again, back to step 1
Exit Condition	An updated employee

4.4.15 Disable Employee

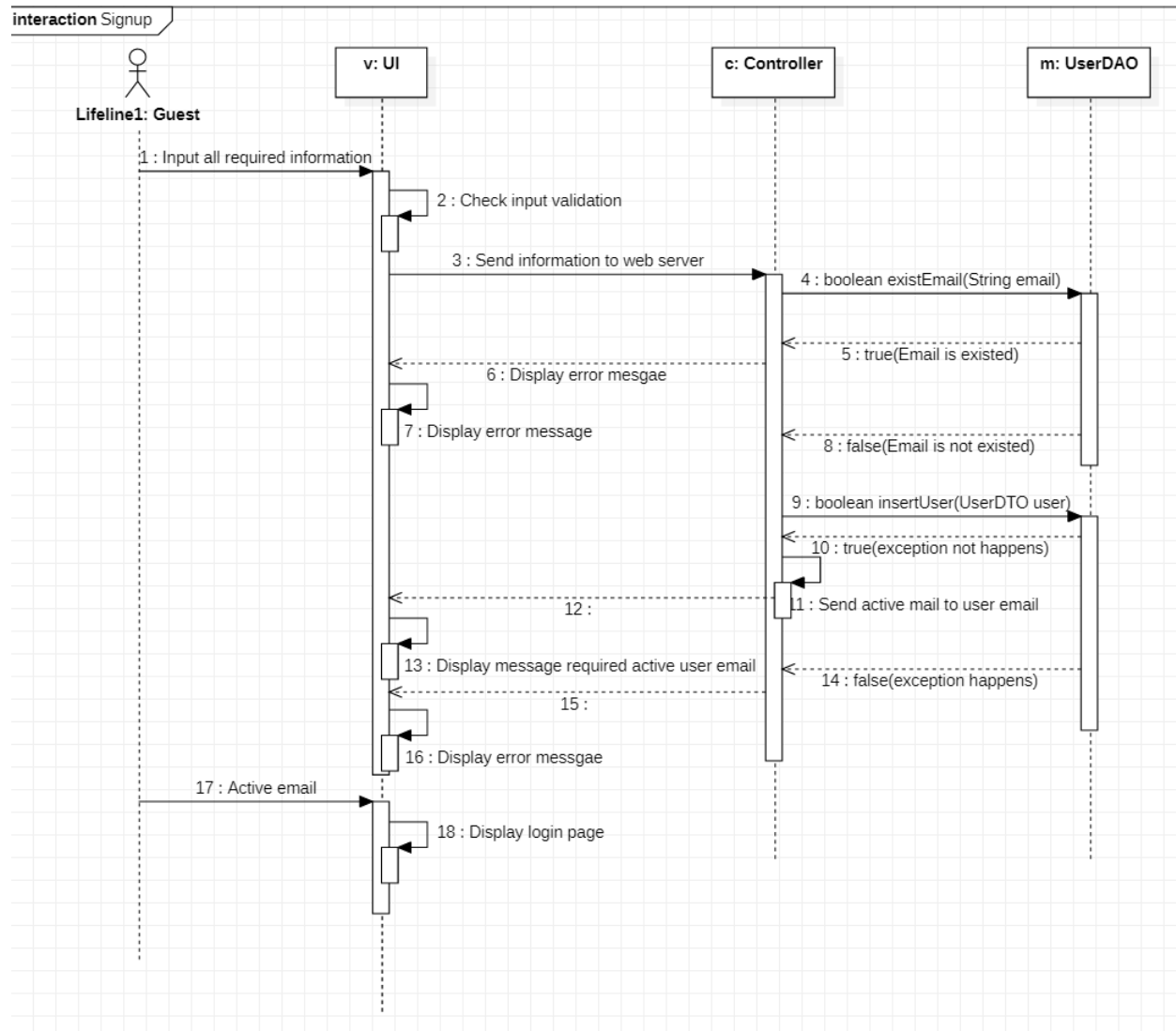
Participant Actor	Manager
Entry Condition	<ul style="list-style-type: none"> - Access website bookslife.com - Choose "Sign in" function - Login Successfully with Manage role - Manager chooses "Disable Employee" function
Basic flows	<ol style="list-style-type: none"> 1. System will check the constraint the column "still working" is true or not. <ol style="list-style-type: none"> 1.1 If not, manager can disable the employee and system will update under DB. 1.2 If true, system will notify that this employee can not disable
Exit Condition	A disable employee

4.5 Class Diagram

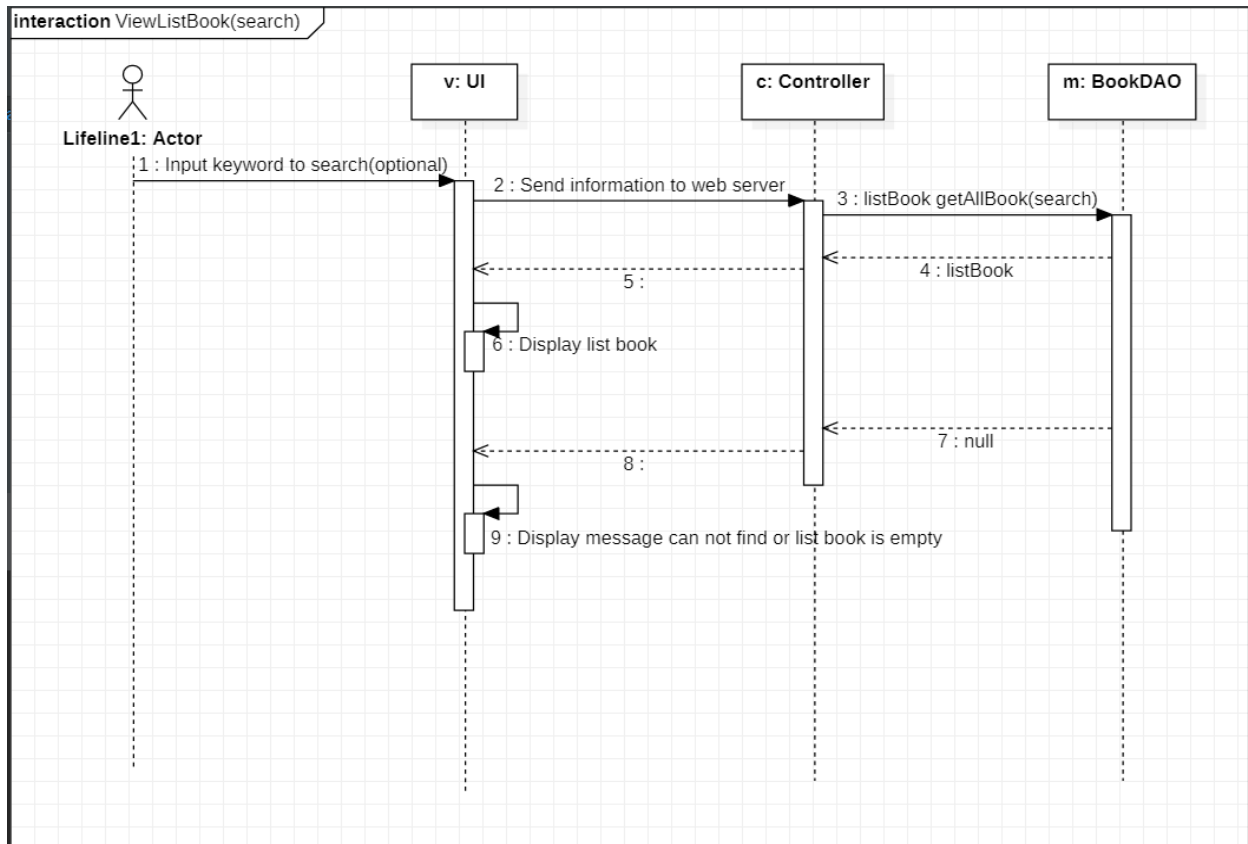


4.6 Sequence Diagram

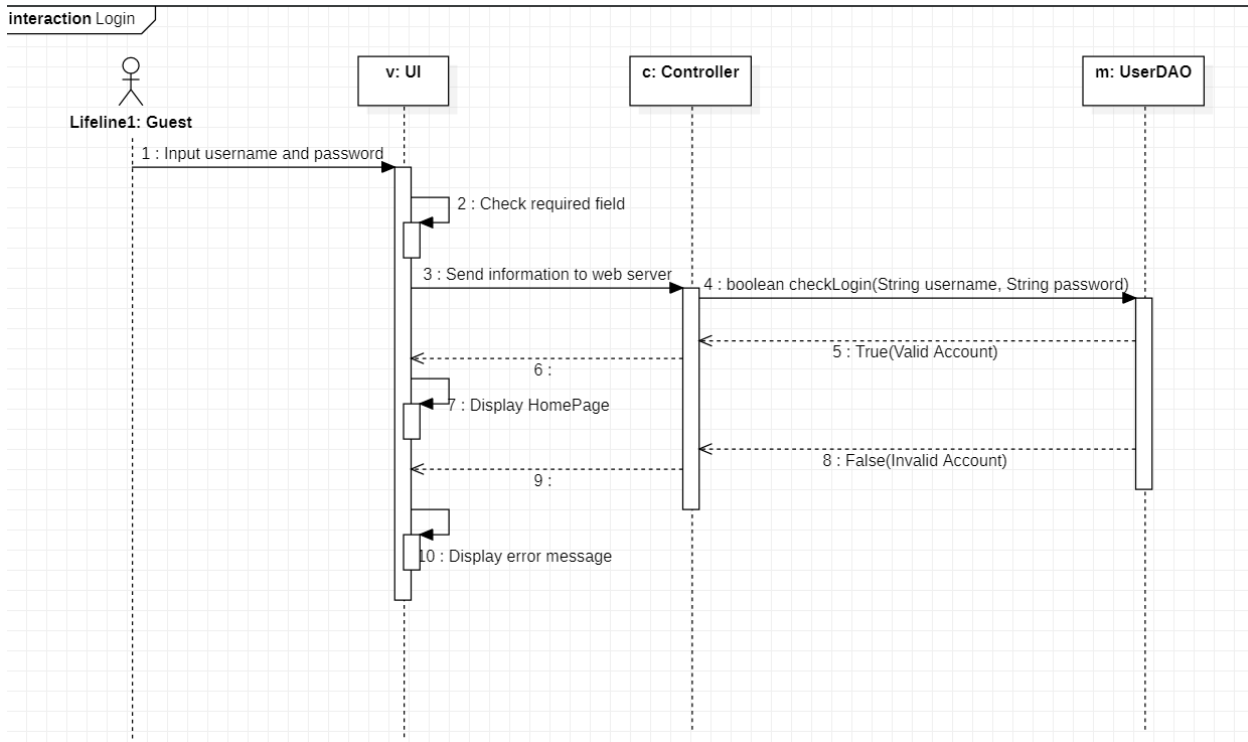
4.6.1 Sign up Account



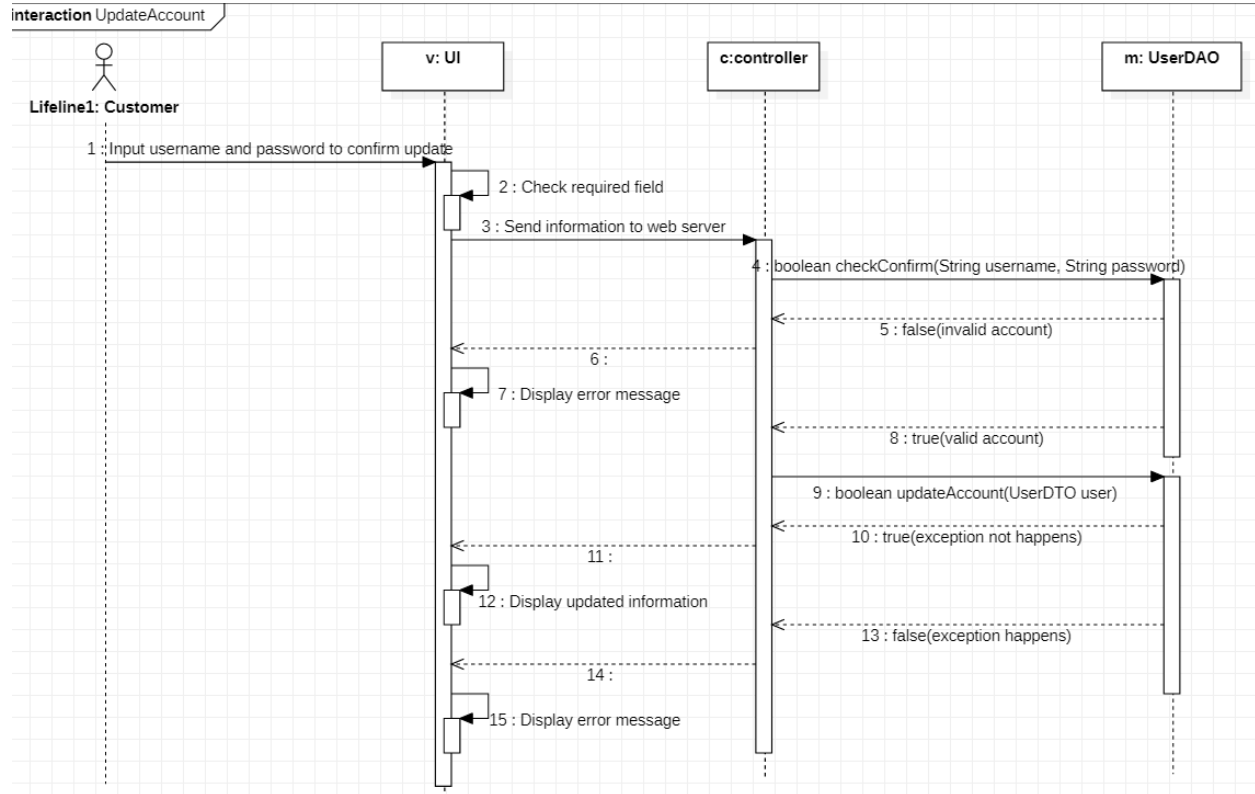
4.6.2 Search/View Book



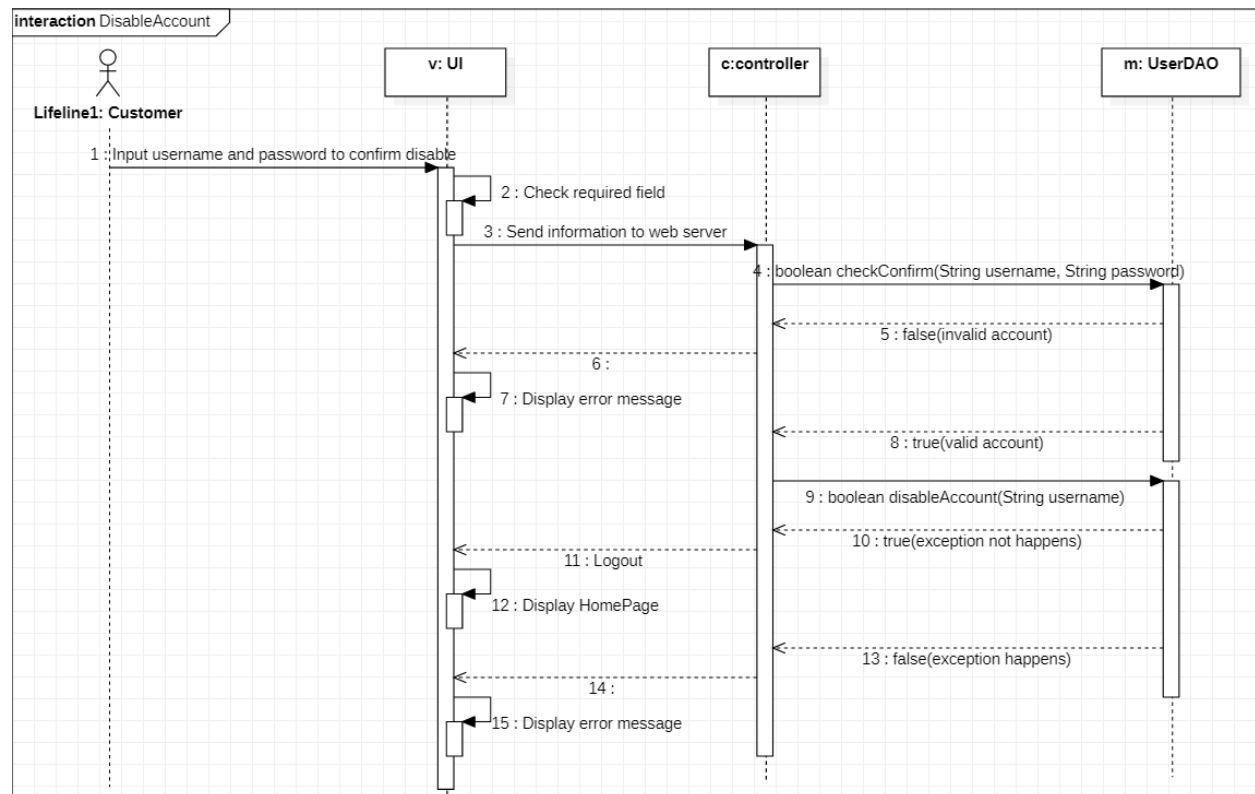
4.6.3 Login



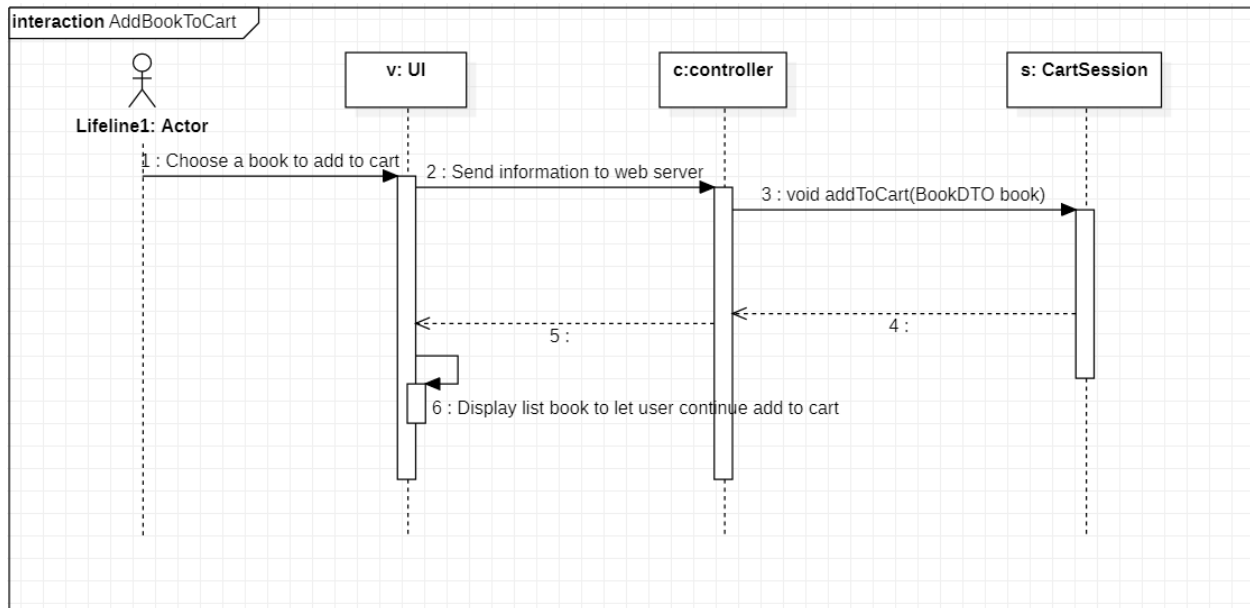
4.6.4 Update Profile



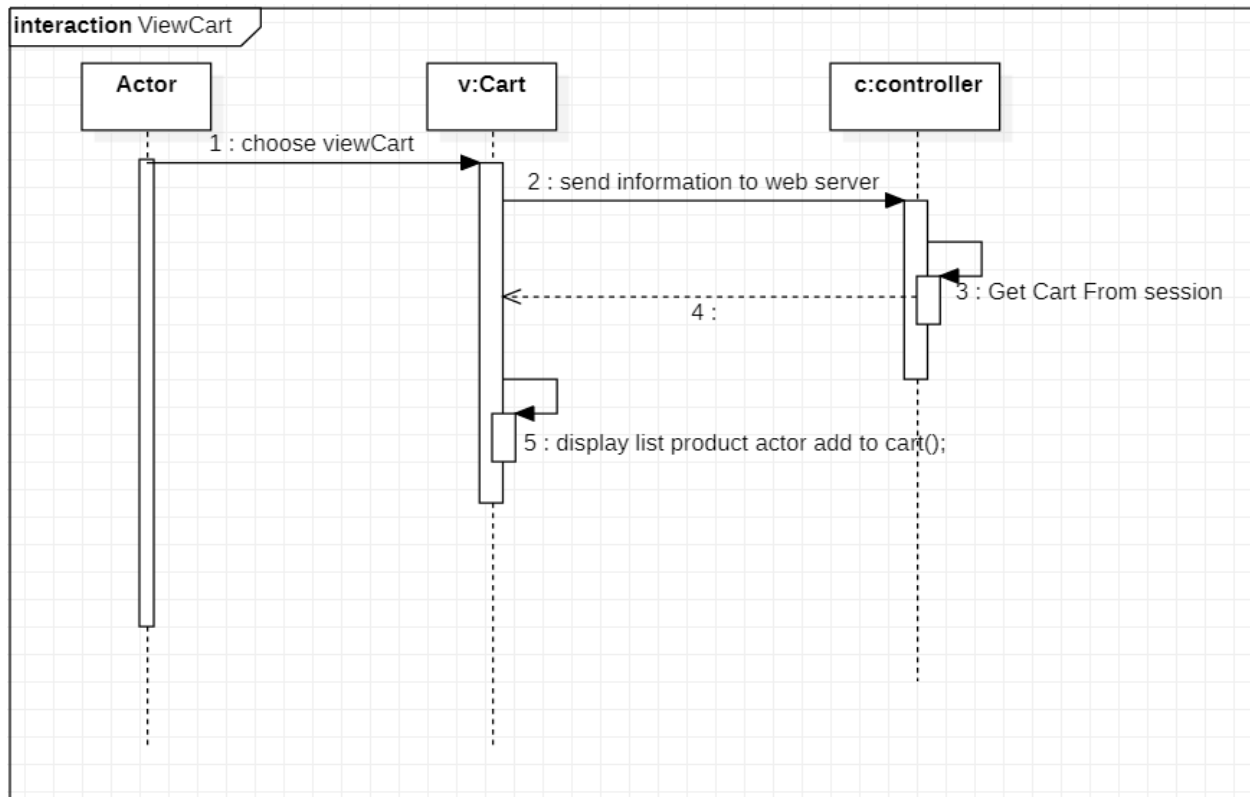
4.6.5 Disable Account



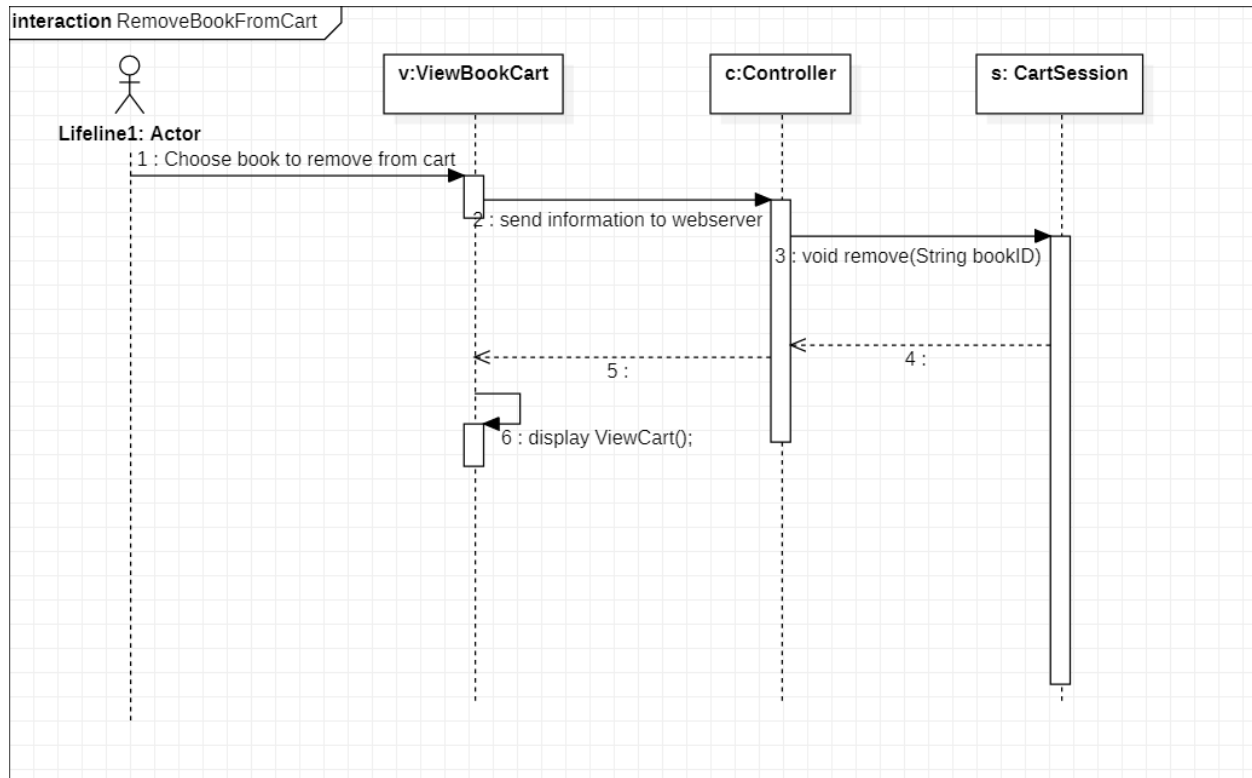
4.6.6 Add Book to Cart



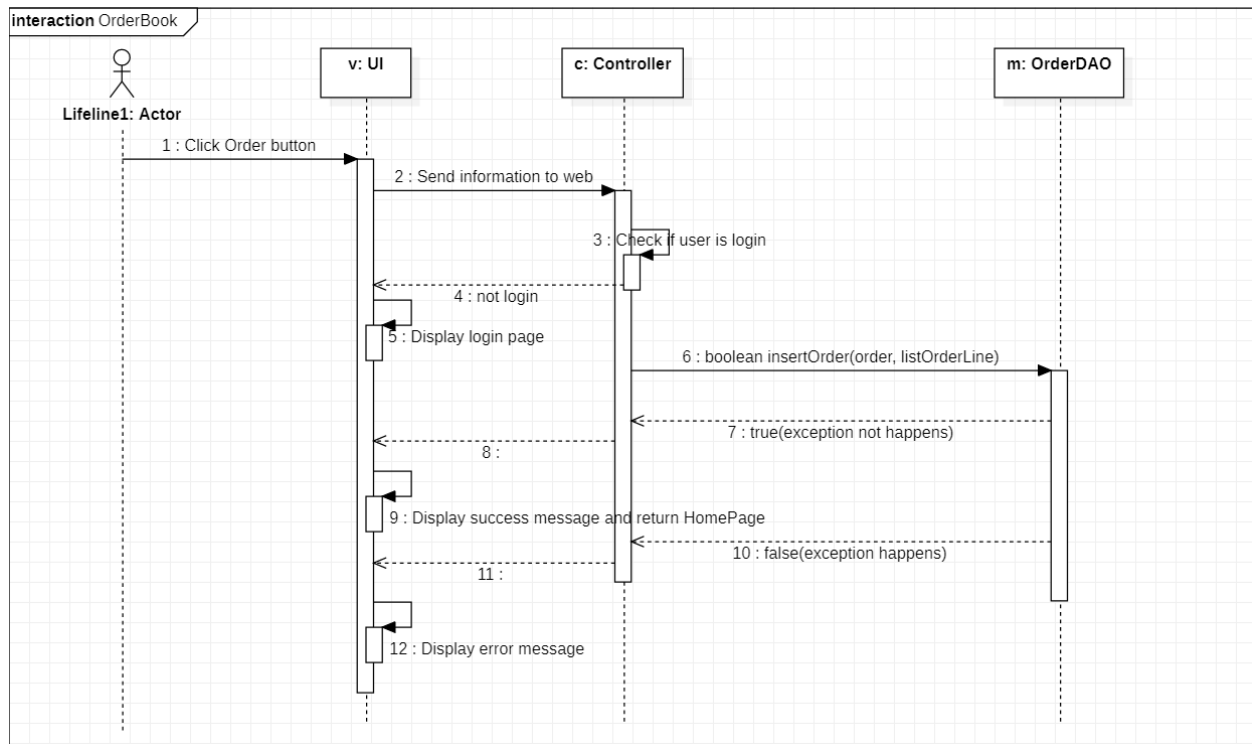
4.6.7 View Cart



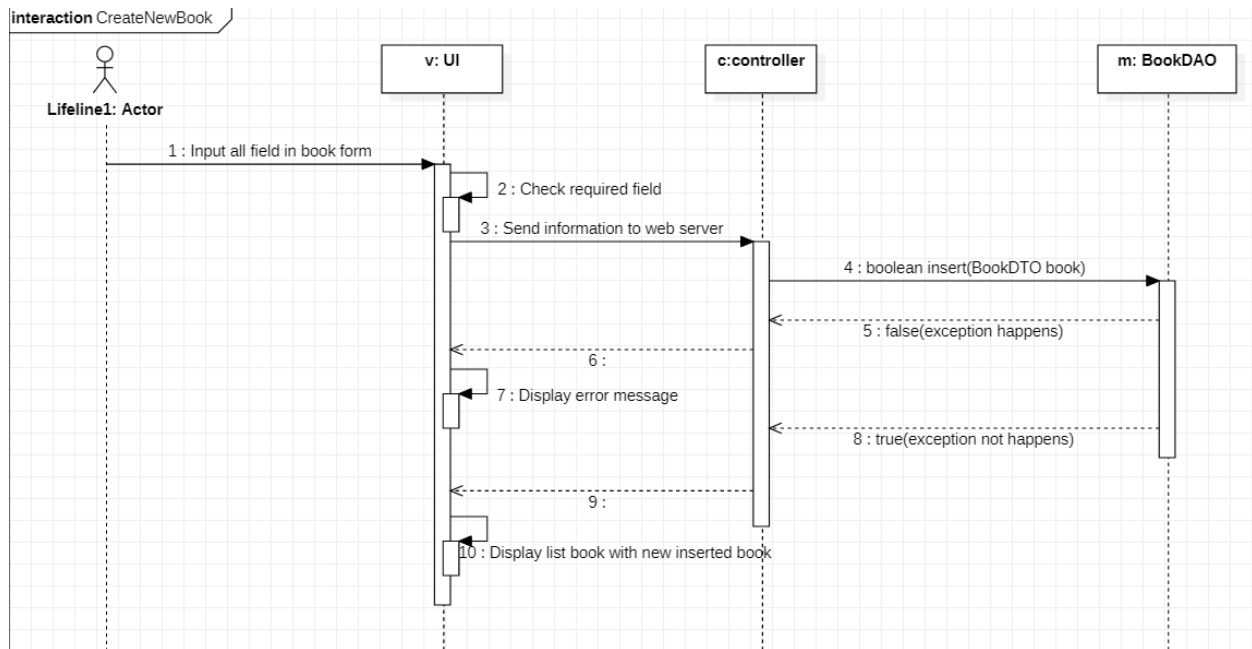
4.6.8 Remove Book from Cart



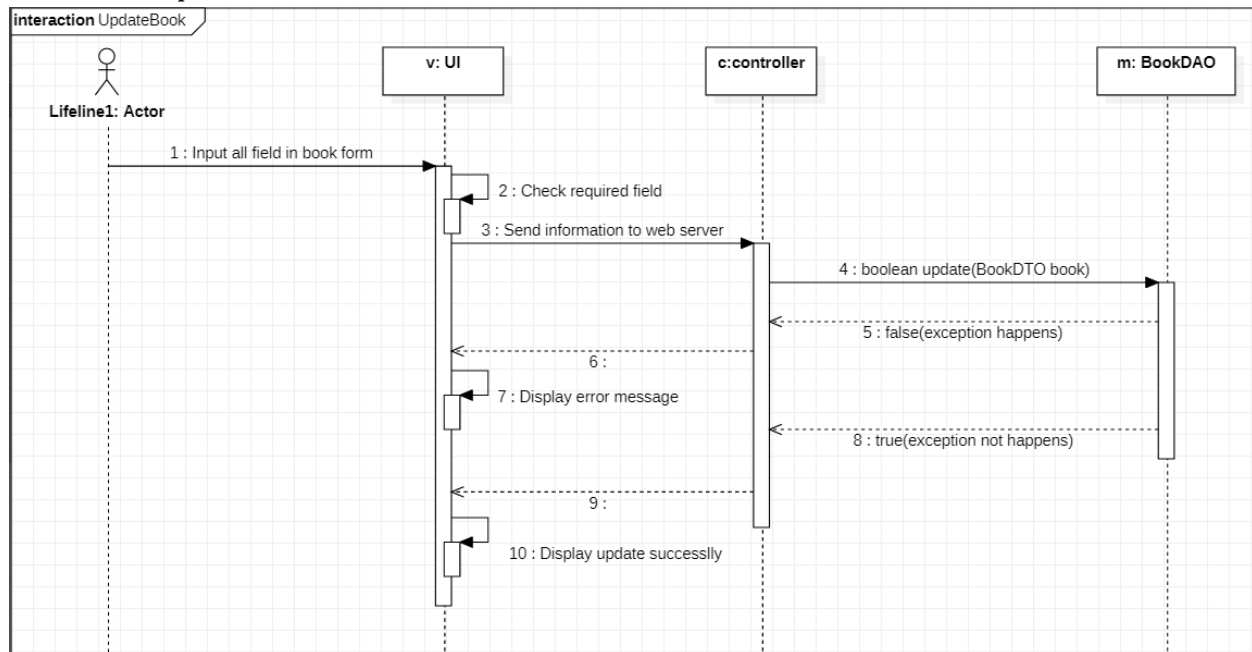
4.6.9 Order Book



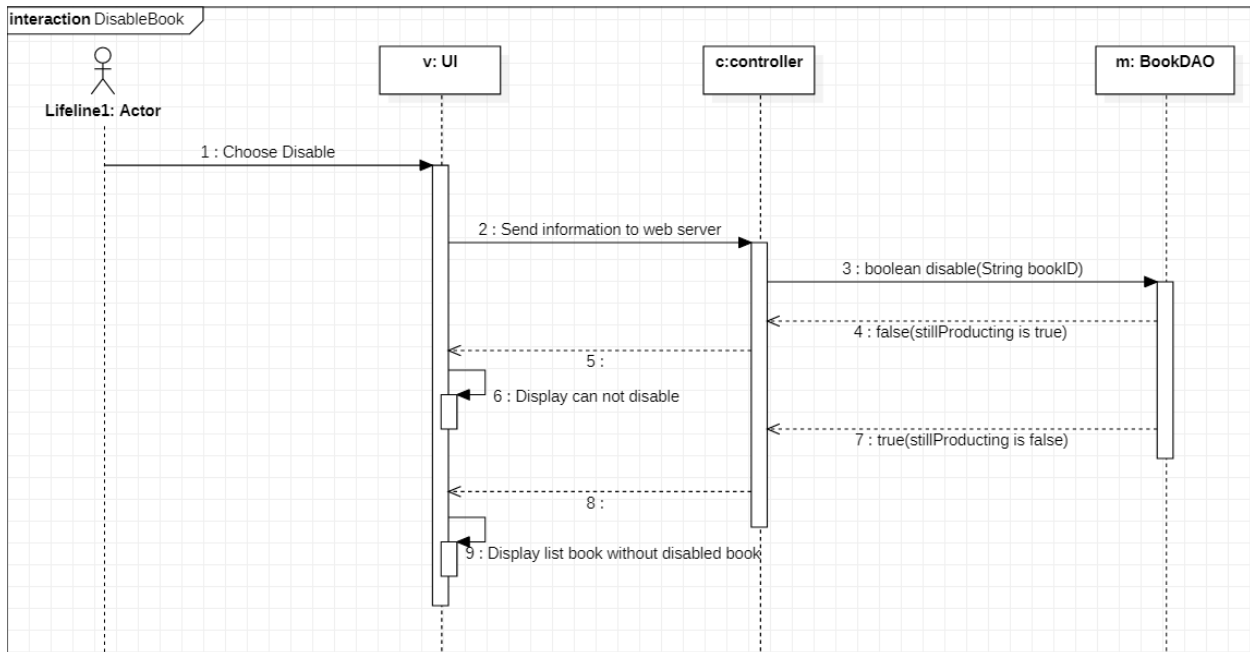
4.6.10 Create new Book



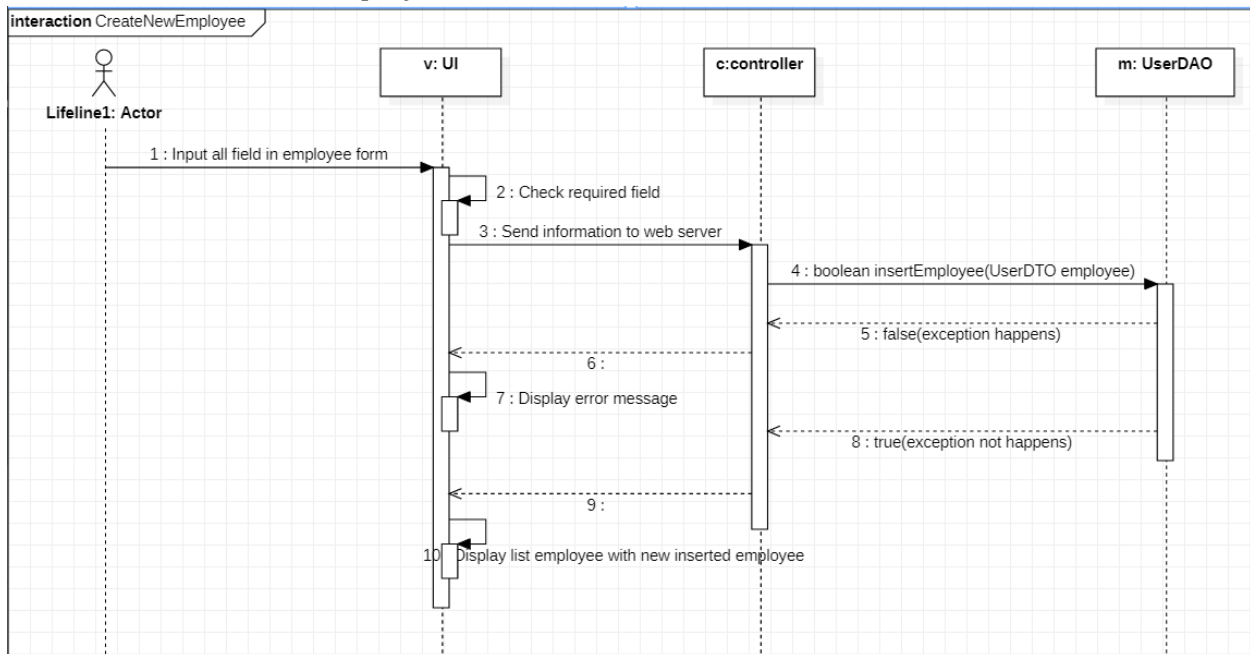
4.6.11 Update Book



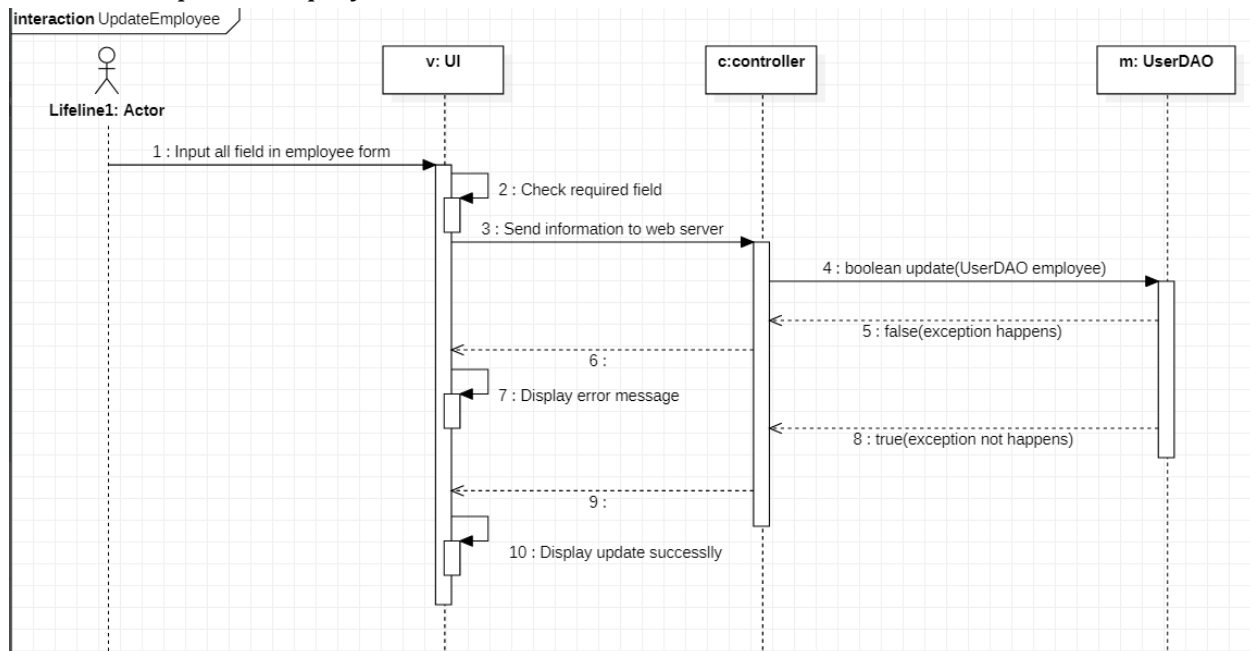
4.6.12 Disable Book



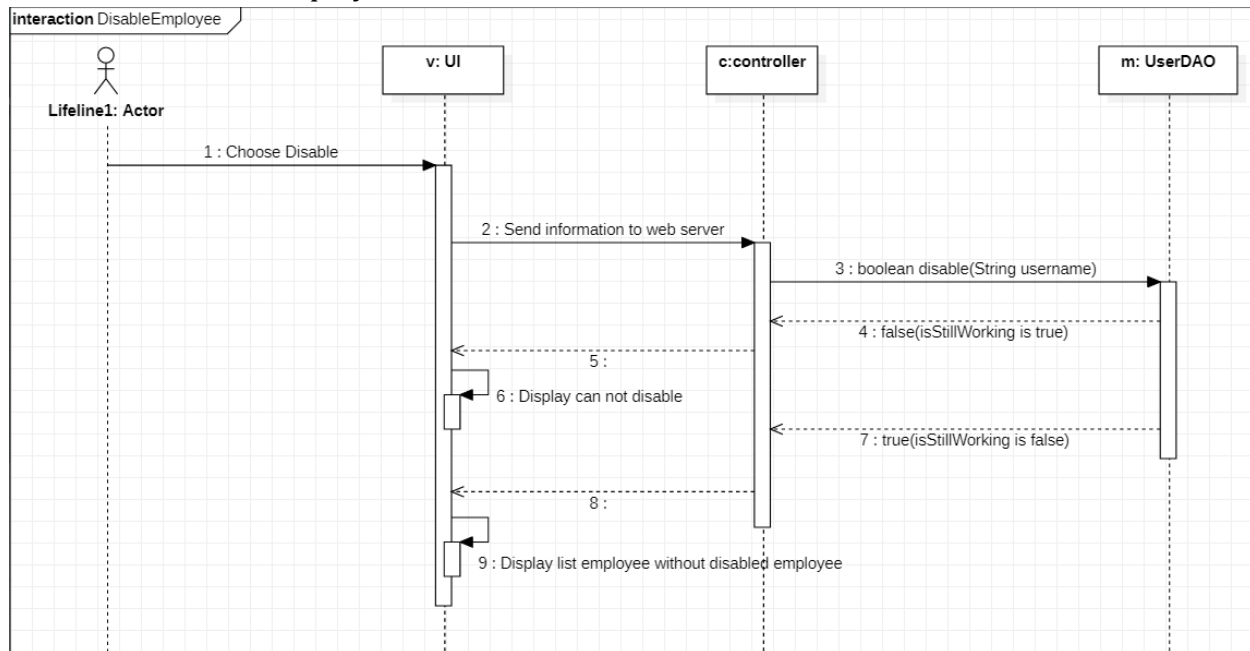
4.6.13 Create new Employee



4.6.14 Update Employee



4.6.15 Disable Employee



4.7. Advanced Technologies

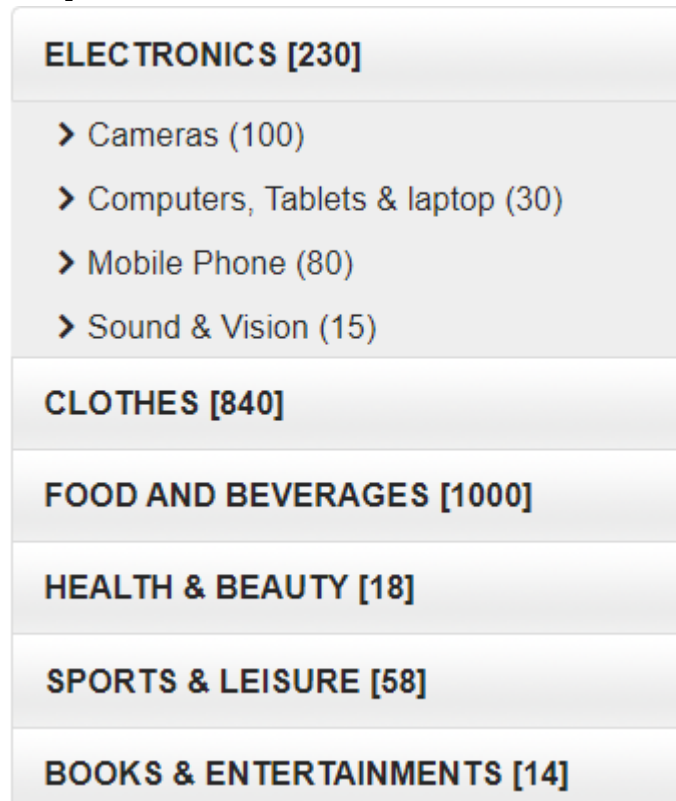
- We use some templates for this. We found it free and suitable for our website project.
 - Green energy website template: Our team use this template for header
 - **Template:**



- **Our website:**



- Bootstrap Shop Free Website template: Website use this template for left nav tabs, display products, shopping cart, etc.
 - **Template:**








Product name

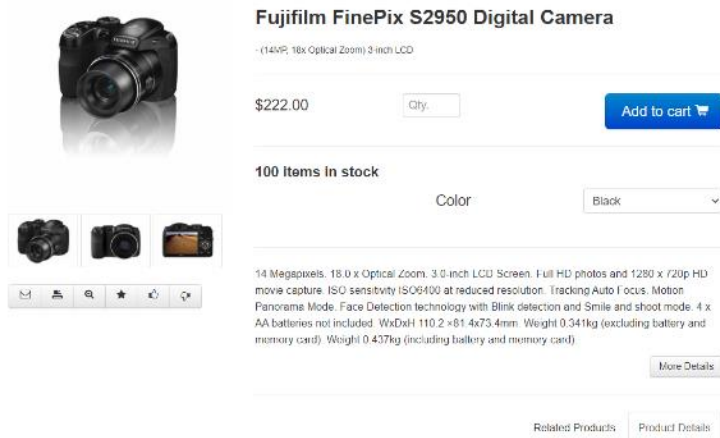
Lorem Ipsum is simply dummy text.



Add to

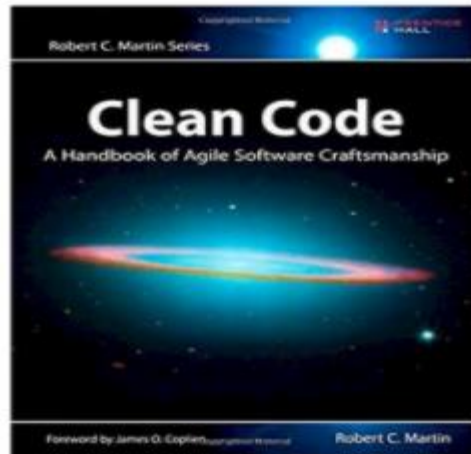
\$222.00

Product	Description	Quantity/Update	Price	Discount	Tax	Total
	MASSAAST Color : black, Material : metal	<input type="text" value="1"/> <input type="button" value="-"/> <input type="button" value="+"/> <input type="button" value="X"/>	\$120.00	\$25.00	\$15.00	\$110.00
	MASSAAST Color : black, Material : metal	<input type="text" value="1"/> <input type="button" value="-"/> <input type="button" value="+"/> <input type="button" value="X"/>	\$7.00	--	\$1.00	\$8.00
	MASSAAST Color : black, Material : metal	<input type="text" value="1"/> <input type="button" value="-"/> <input type="button" value="+"/> <input type="button" value="X"/>	\$120.00	\$25.00	\$15.00	\$110.00
Total Price:						\$228.00
Total Discount:						\$50.00
Total Tax:						\$31.00
TOTAL (\$228 - \$50 + \$31) =						\$155.00



- Category

- Computers & Technology
- Science & Math
- Science Fiction & Fantasy
- Self-help
- Comics & Graphic Novels
- Cookbooks, Food & Wine
- Education & Teaching
- Engineering & Transportation
- History
- Humor & Entertainment
- Romance



Clean Code: A Handbook of Agile Software Craftsmanship

Helped bring agile principles from a practitioner's point of view

Add to Cart

38.99\$

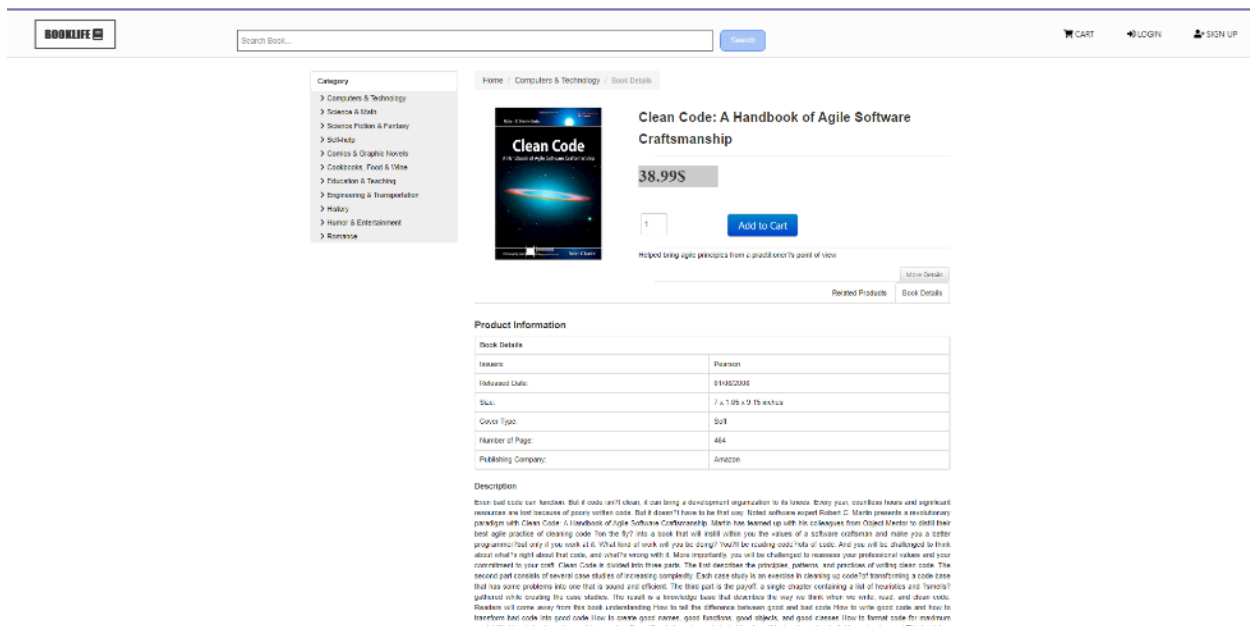
[Home](#) / [SHOPPING CART](#)

SHOPPING CART

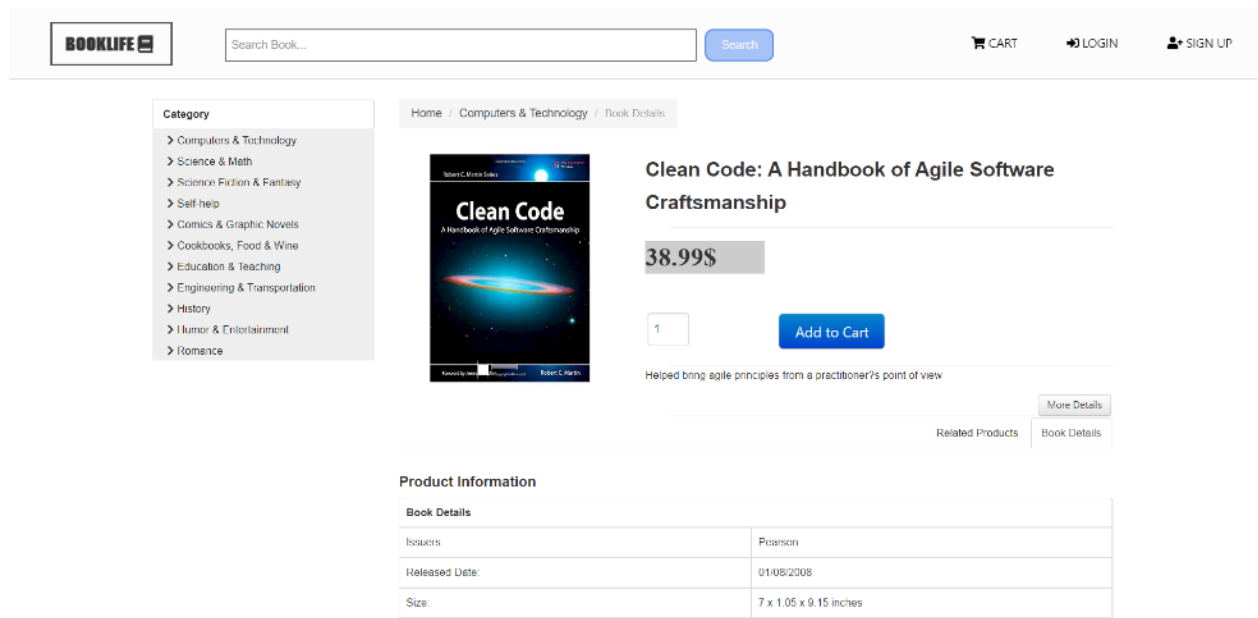
[← Continue Shopping](#)

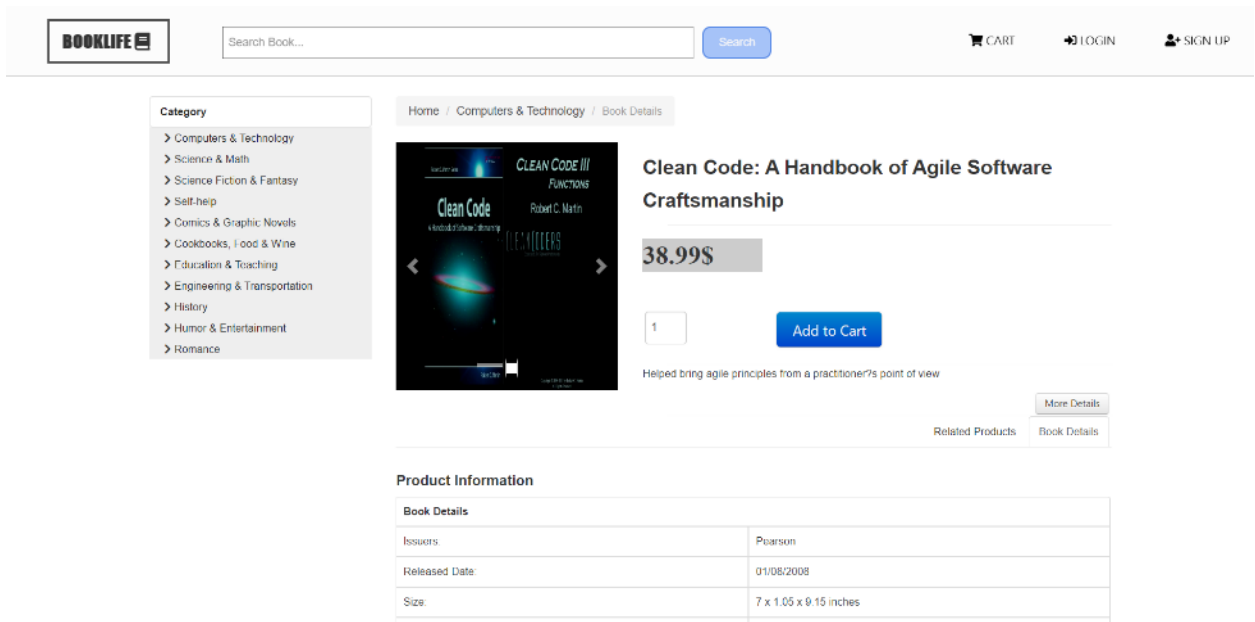
Title	Quantity	Price	Total	
Trumpty Dumpty Wanted a Crown: Verses for a Despotic Age	2	20.66	41.32	Delete
Clean Code: A Handbook of Agile Software Craftsmanship	5	38.99	194.95000000000002	Delete
			Total Price:	236.27

Order



- About the detail of book, we use carousel slide to display list of images of the book (use Bootstrap for this)

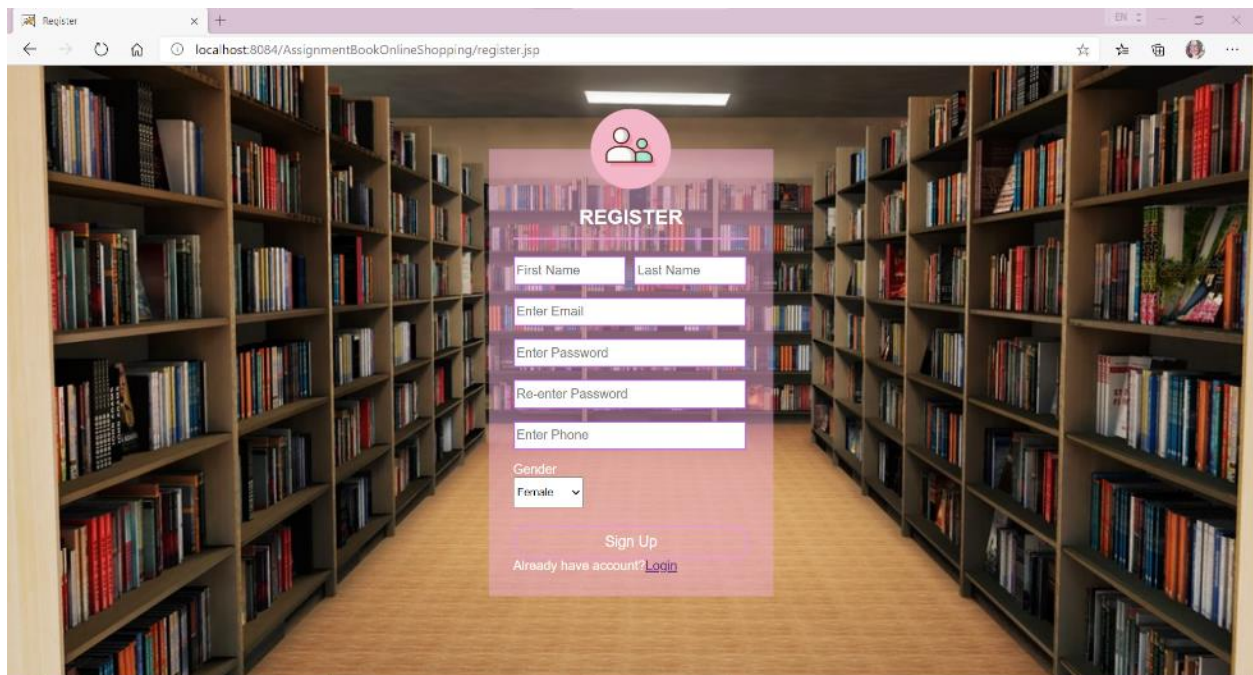




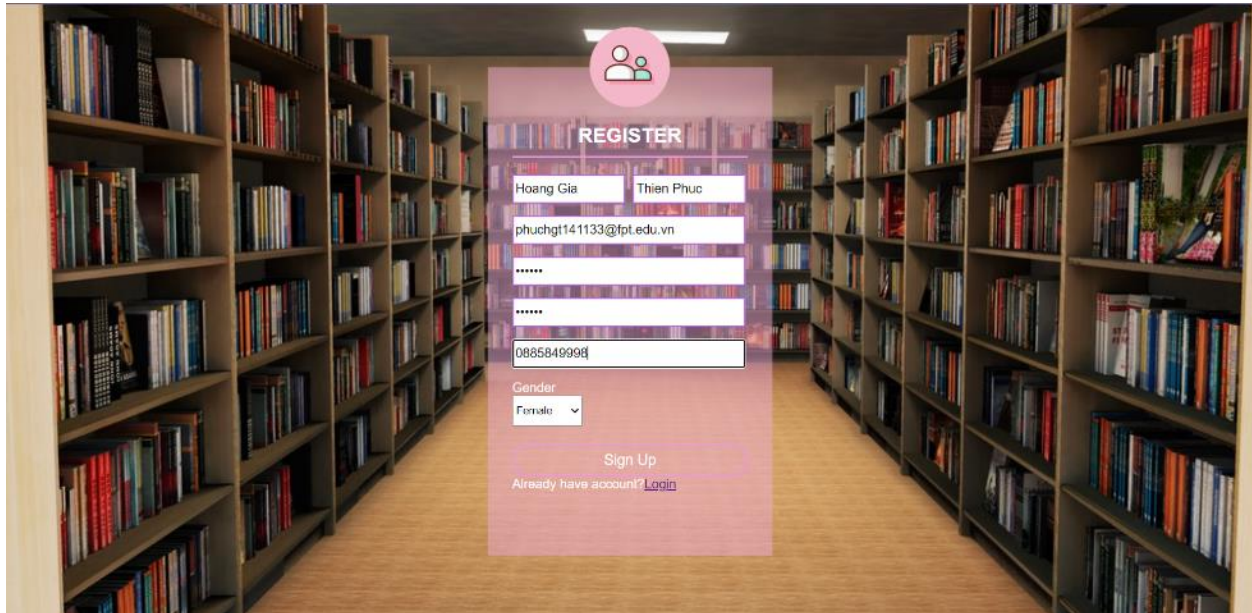
5. Screen Shot

5.1 Sign up Account

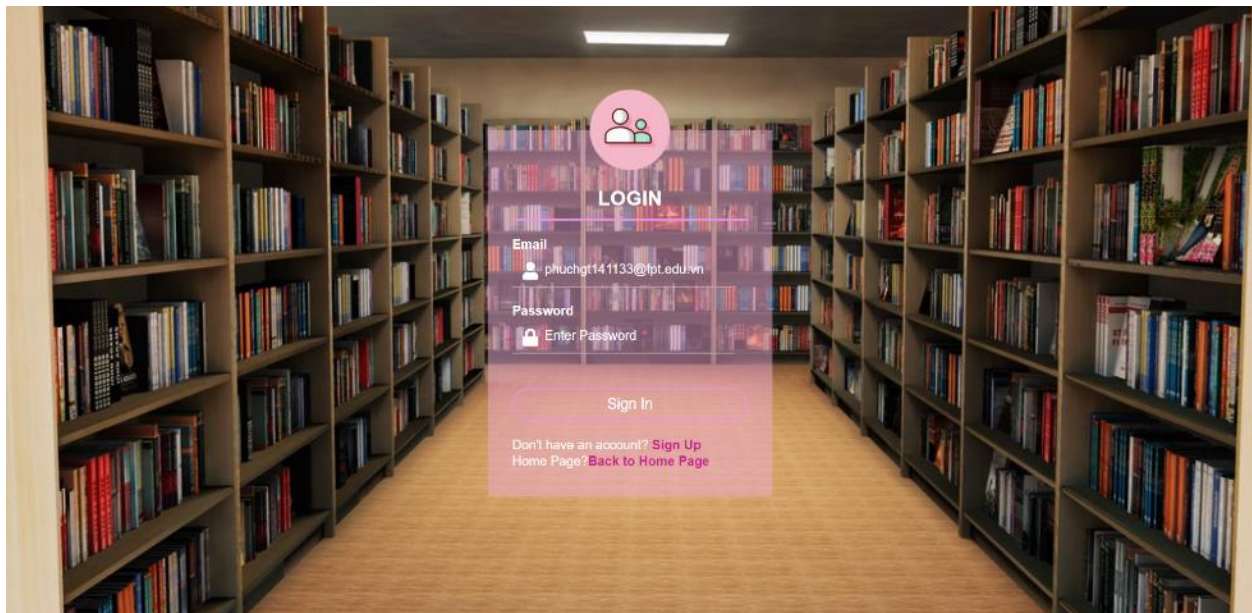
- Sign up form:



- Input all required field with valid data and click Sign Up button

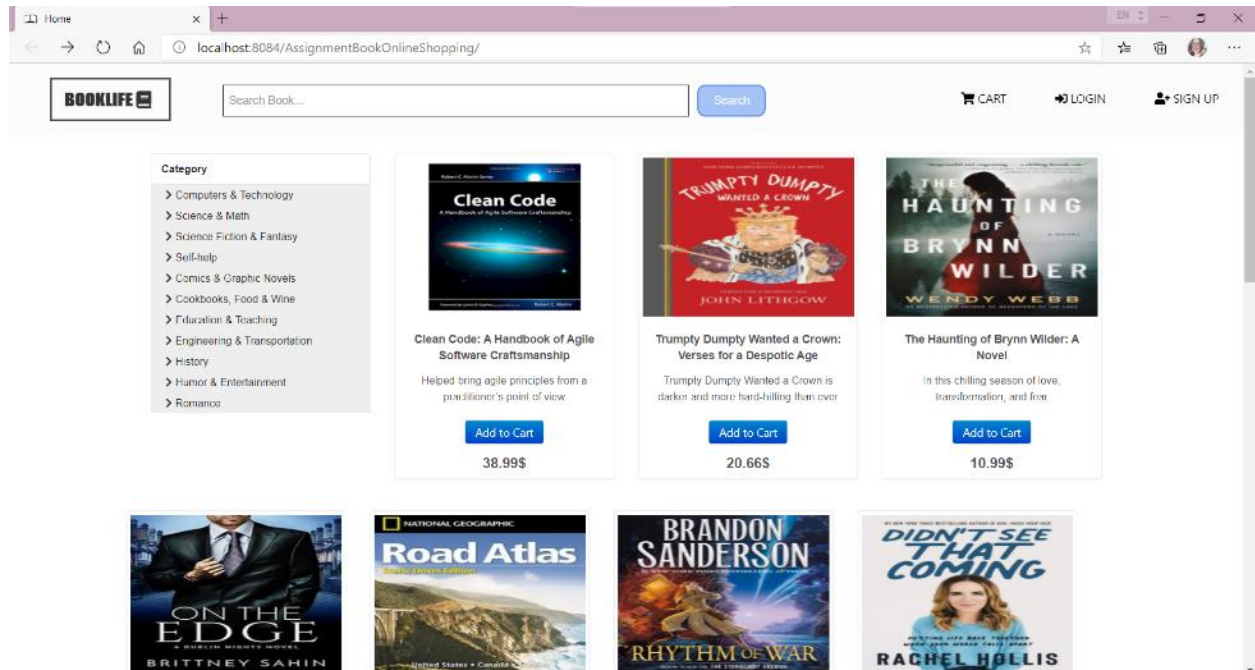


-System display login page

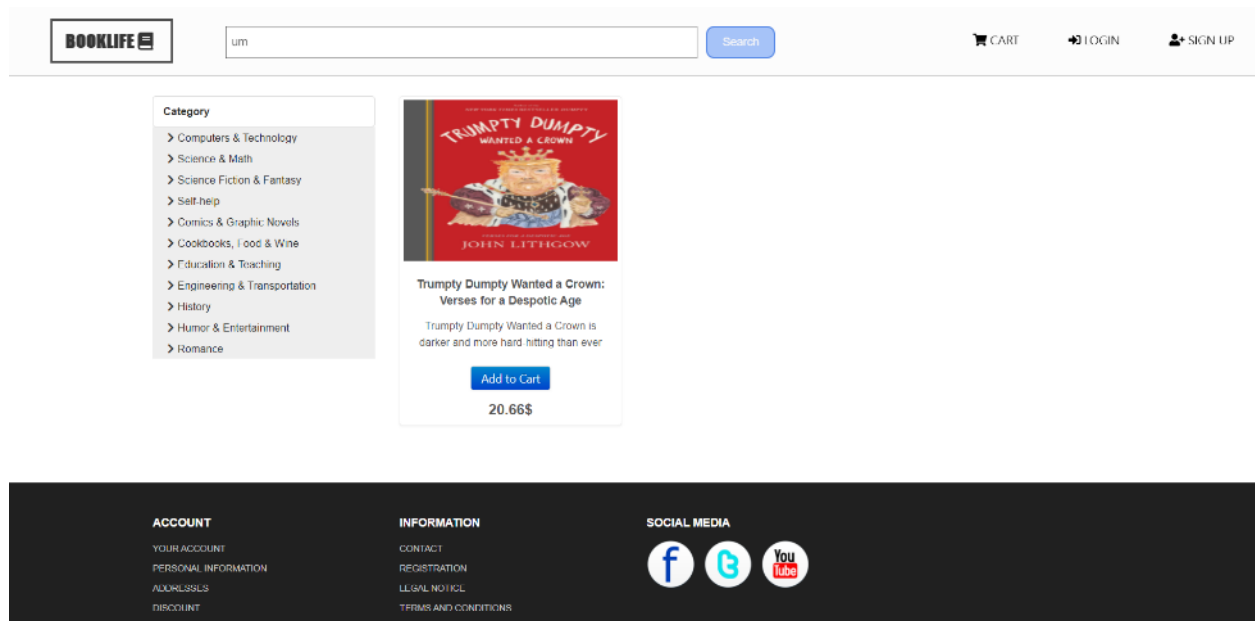


5.2 Search/View Book

- Home page



- Search Book



-View detail of book

BOOKLIFE

Search Book...

Search

CART

LOGIN

SIGN UP

Category

> Computers & Technology

> Science & Math

> Science Fiction & Fantasy

> Self-help

> Science & Graphic Novels

> Cookbooks, Food & Wine

> Education & Teaching


> Engineering & Transportation

> History

> Humor & Entertainment

> Romance

Home / Computers & Technology / Books Details



Clean Code: A Handbook of Agile Software Craftsmanship

38.99\$

Add to Cart

Helped bring agile principles from a practitioner's point of view

More Details

Related Products

Book Details

Product Information

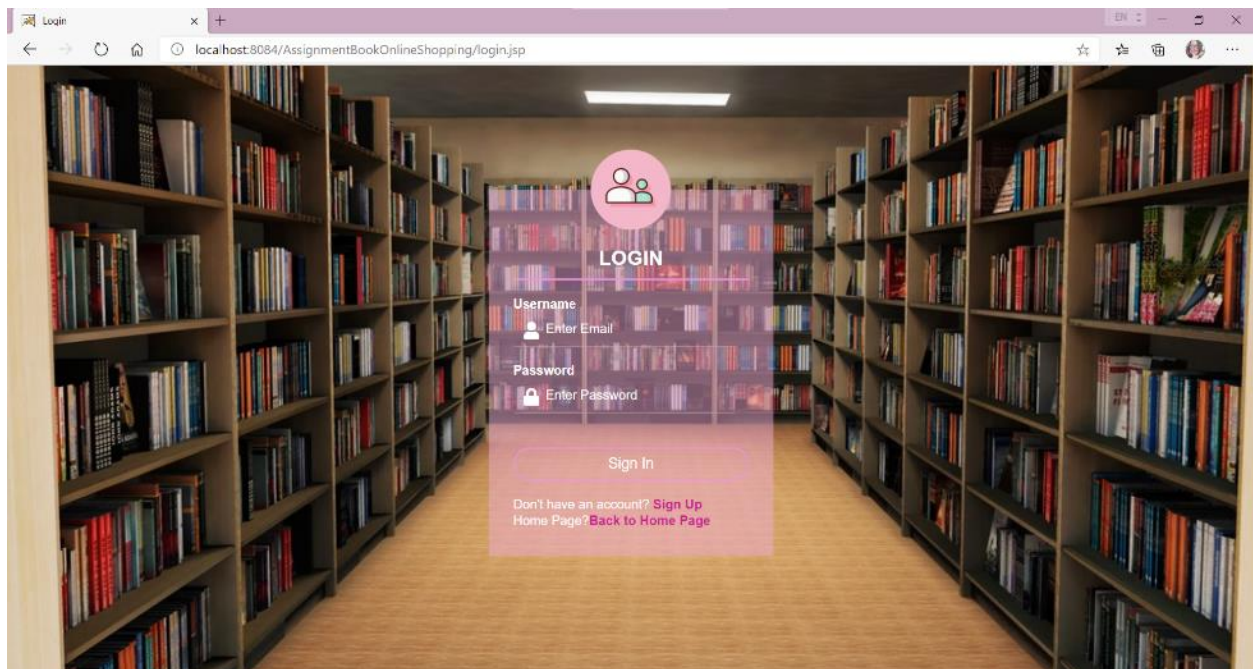
Book Details	
Isbn:	9780132180133
Release Date:	06/08/2008
Size:	7 x 1.25 x 9.15 inches
Cover Type:	Soft
Number of Page:	454
Publishing Company:	Amazon

Description

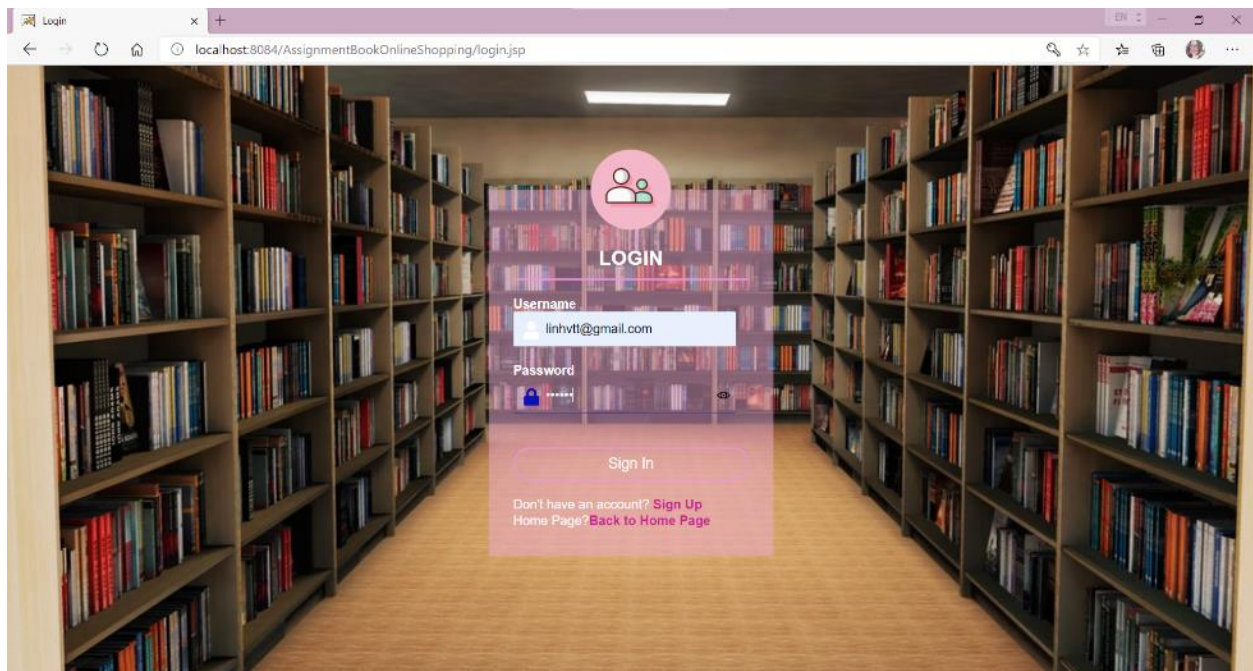
Even bad code can function. But if code isn't clean, it can bring a development organization to its knees. Every year, countless hours and significant resources are lost because of poorly written code. But it doesn't have to be that way. Fellow software expert Robert C. Martin presents a revolutionary paradigm with *Clean Code: A Handbook of Agile Software Craftsmanship*. Martin has teamed up with his colleagues from Object Mentor to distill their best agile practice of cleaning code "for the 99%" into a book that will teach either you the value of a software craftsman and make you a better programmer...that only if you work at it. What kind of work will you be doing? You'll be reading code! Lots of code. And you will be challenged to think about what's right about that code, and what's wrong with it. More importantly, you will be challenged to recognize your professional values and your commitment to your craft. *Clean Code* is divided into three parts. The first describes the principles, patterns, and practices of writing clean code. The second part consists of several case studies of refactoring complexity. Each case study is an exercise in cleaning up code that's transforming a code base that has some problems into one that is sound and efficient. The third part is the payoff: a single chapter containing a lot of heuristics and "laments" gathered while cleaning the code stacks. The result is a knowledge base that liberates the way we think about writing, reading, and cleaning code. Readers will come away from this book understanding how to tell the difference between good and bad code, how to write good code and how to transform bad code into good code, how to write good names, good functions, good objects, and good classes, how to format code for maximum

5.3 Login

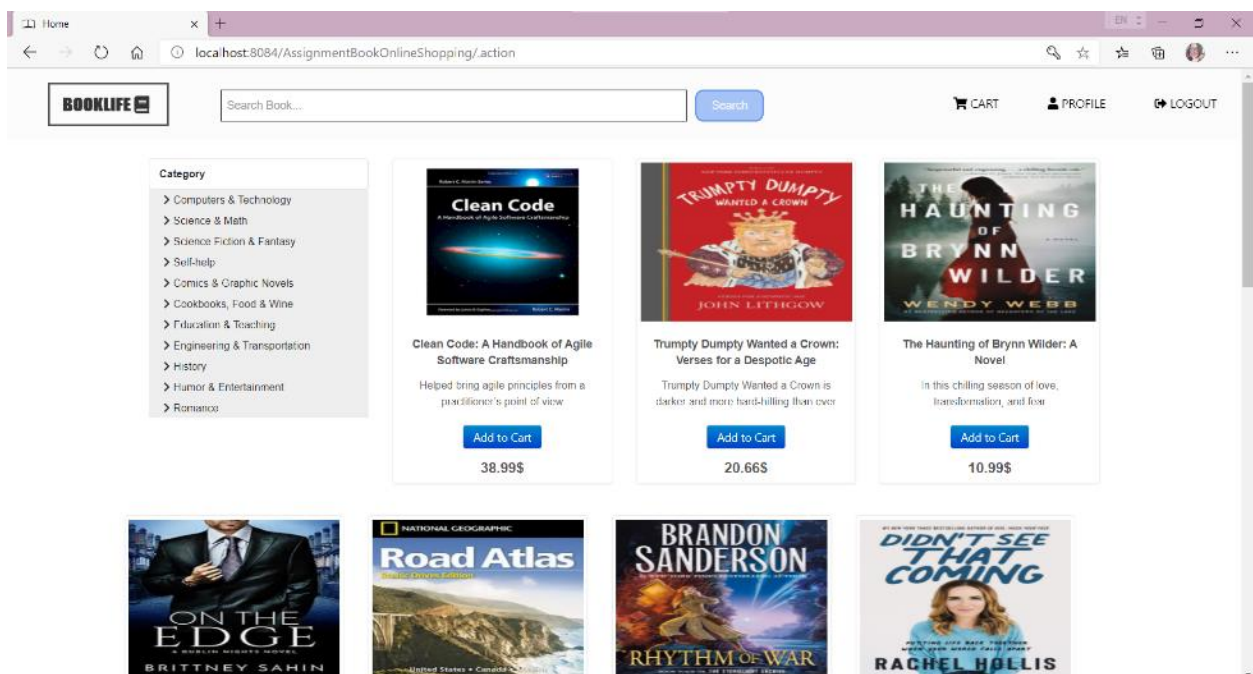
- Login form:

The image shows a web browser window with the address bar displaying 'localhost:8084/AssignmentBookOnlineShopping/login.jsp'. The main content area features a background image of a library with tall bookshelves filled with books. Overlaid on this background is a semi-transparent pink login form. At the top of the form is a circular icon containing a stylized person. Below the icon, the word 'LOGIN' is written in bold. The form contains two input fields: 'Username' with a placeholder 'Enter Email' and 'Password' with a placeholder 'Enter Password'. Below these fields is a 'Sign In' button. At the bottom of the form, there are two links: 'Don't have an account? Sign Up' and 'Home Page? Back to Home Page'.

- Input username and password:



- Login Successfully with customer role:



- Login Successfully with employee role:

[+ CREATE NEW BOOK](#)
[PROFILE](#)
[LOGOUT](#)

Category

- > Computers & Technology
- > Science & Math
- > Science Fiction & Fantasy
- > Self-help
- > Comics & Graphic Novels
- > Cookbooks, Food & Wine
- > Education & Teaching
- > Engineering & Transportation
- > History
- > Humor & Entertainment
- > Romance

Clean Code: A Handbook of Agile Software Craftsmanship

Helped bring agile principles from a practitioner's point of view

38.99\$

Trumpy Dumpty Wanted a Crown: Verses for a Despotic Age

Trumpy Dumpty Wanted a Crown is darker and more hard-hitting than ever

20.66\$

The Haunting of Brynn Wilder: A Novel

In this chilling season of love, transformation, and fear

10.99\$

ON THE EDGE

BRITTNEY SAHIN

Road Atlas

United States • Canada

BRANDON SANDERSON

RHYTHM OF WAR

DIDN'T SEE THAT COMING

RACHEL HOLLIS

- Login Successfully with manager role:

[+ CREATE NEW BOOK](#)
[+ CREATE NEW EMPLOYEE](#)
[LOGOUT](#)

Type

- > Book
- > Employee

Category

- > Computers & Technology
- > Science & Math
- > Science Fiction & Fantasy
- > Self-help
- > Comics & Graphic Novels
- > Cookbooks, Food & Wine
- > Education & Teaching
- > Engineering & Transportation
- > History
- > Humor & Entertainment
- > Romance

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38.99\$

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Trumpy Dumpty Wanted a Crown is darker and more hard-hitting than ever

20.66\$

The Haunting of Brynn Wilder: A Novel

In this chilling season of love, transformation, and fear

10.99\$

ON THE EDGE

BRITTNEY SAHIN

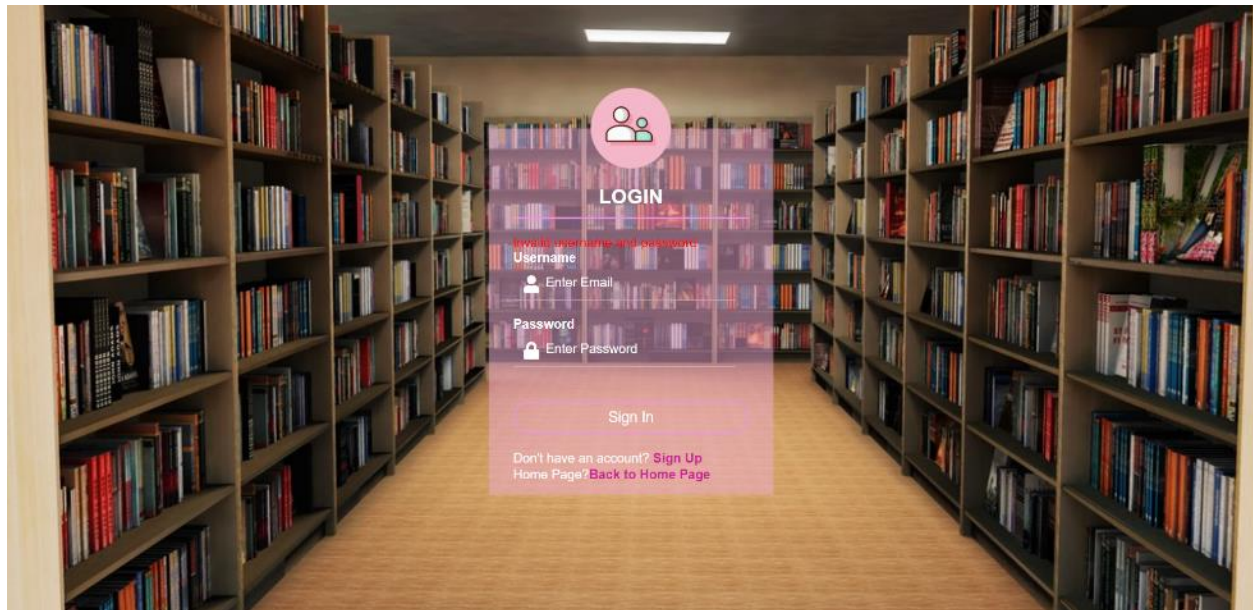
Road Atlas

United States • Canada

BRANDON SANDERSON

RHYTHM OF WAR

- Login Failed



5.4 Update Profile

- Display form with customer's information. Customer changes information then chooses Update Profile

BOOKLIFE

Search Book

Search

CART

PROFILE

LOGOUT

Manage Profile

Email

intvib@gmail.com

Current Password

New Password

Confirm New Password

First name

Thuy Linh

Last name

Vu Thi

Phone

0938493883

Gender

Female

Address

Binh Phuoc

Description

Occupation

Update Profile

Disable Account

- User must input password to confirm update

BOOKLIFE

Search

CART

PROFILE

LOGOUT

Manage Profile

Email

linhvt@gmail.com

Current Password

Password not match with your password. Please check again

New Password

Confirm New Password

First name

Thuy Linh

Last name

Vu Thi

Phone

0838483882

- Confirm successfully, system display updated customer's information with success message

BOOKLIFE

Search

CART

PROFILE

LOGOUT

Manage Profile

Update Profile Successfully

Email

linhvt@gmail.com

Current Password

New Password

Confirm New Password

First name

Thuy Linh

Last name

Vu Thi

Phone

0838483882

-Confirm failed, notify error

BOOKLIFE

Search Book...

Search

CART

PROFILE

LOGOUT

Manage Profile

Email

linhvt@gmail.com

Current Password

Password not match with your password. Please check again

New Password

Confirm New Password

First name

Thuy Linh

Last name

Vu Thi

Phone

0838483882

5.5 Disable Account

- Display form with customer's information. Customer chooses Disable Account

BOOKLIFE

Search Book...

Search

CART

PROFILE

LOGOUT

Manage Profile

Email

linhvt@gmail.com

Current Password

New Password

Confirm New Password

First name

Thuy Linh

Last name

Vu Thi

Phone

0838483882

Gender

Female

Address

11111111111111111111

Description

Description

Update Profile

Disable Account

- System displays confirm form

Confirm form

Email

linhvtt@gmail.com

Password

Confirm

Back to Homepage

- Confirm successfully, system logout account and display homepage

BOOKLIFE

Search Book...

Search


CART

LOGIN

SIGN UP

Category

- > Computers & Technology
- > Science & Math
- > Science Fiction & Fantasy
- > Self-help
- > Comics & Graphic Novels
- > Cookbooks, Food & Wine
- > Education & Teaching
- > Engineering & Transportation
- > History
- > Humor & Entertainment
- > Romance

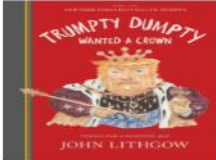


Clean Code: A Handbook of Agile Software Craftsmanship
Robert C. Martin

Clean Code: A Handbook of Agile Software Craftsmanship
Helped bring agile principles from a practitioner's point of view

Add to Cart

38.99\$

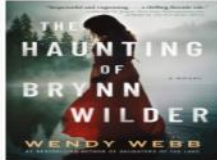


TRUMPY DUMPTY WANTED A CROWN
JOHN LITHGOW

Trumpy Dumpty Wanted a Crown: Verses for a Despotic Age
Trumpy Dumpty Wanted a Crown is darker and more hard-hitting than ever

Add to Cart

20.66\$

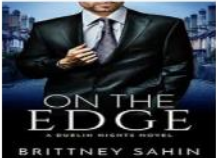


THE HAUNTING OF BRYNN WILDER
WENDY WEBB

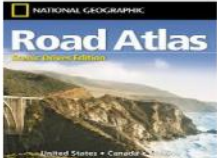
The Haunting of Brynn Wilder: A Novel
In this chilling season of love, transformation, and fear

Add to Cart

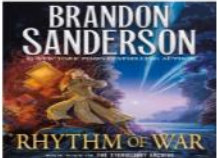
10.99\$




ON THE EDGE
BRITTNEY SAHIN



ROAD ATLAS
NATIONAL GEOGRAPHIC



BRANDON SANDERSON
RHYTHM OF WAR



DIDN'T SEE THAT COMING
RACHEL HOLLIS

-Confirm failed, notify error

Confirm form

Email

Password

Must confirm password to can disable account

Confirm

Back to Homepage

5.6 Add Book to Cart



Clean Code: A Handbook of Agile Software Craftsmanship

Helped bring agile principles from a practitioner's point of view

[Add to Cart](#)

38.99\$

5.7 View Cart

Home

local:localhost:8084/AssignmentBookOnlineShopping/user/userCart.jsp

EN

BOOKLIFE

Search Book...

Search

CART

PROFILE

LOGOUT

Home / SHOPPING CART

SHOPPING CART

Continue Shopping

Title	Quantity	Price	Total	
Trumpley Dumpley Wanted a Crown: Verses for a Despotic Age	2	20.66	41.32	Delete
Clean Code: A Handbook of Agile Software Craftsmanship	3	38.99	116.97	Delete
			Total Price:	158.29

Order

ACCOUNT

[YOUR ACCOUNT](#)
[PERSONAL INFORMATION](#)
[ADDRESSSES](#)
[DISCOUNT](#)
[ORDER HISTORY](#)

INFORMATION

[CONTACT](#)
[REGISTRATION](#)
[LEGAL NOTICE](#)
[TERMS AND CONDITIONS](#)
[FAQ](#)

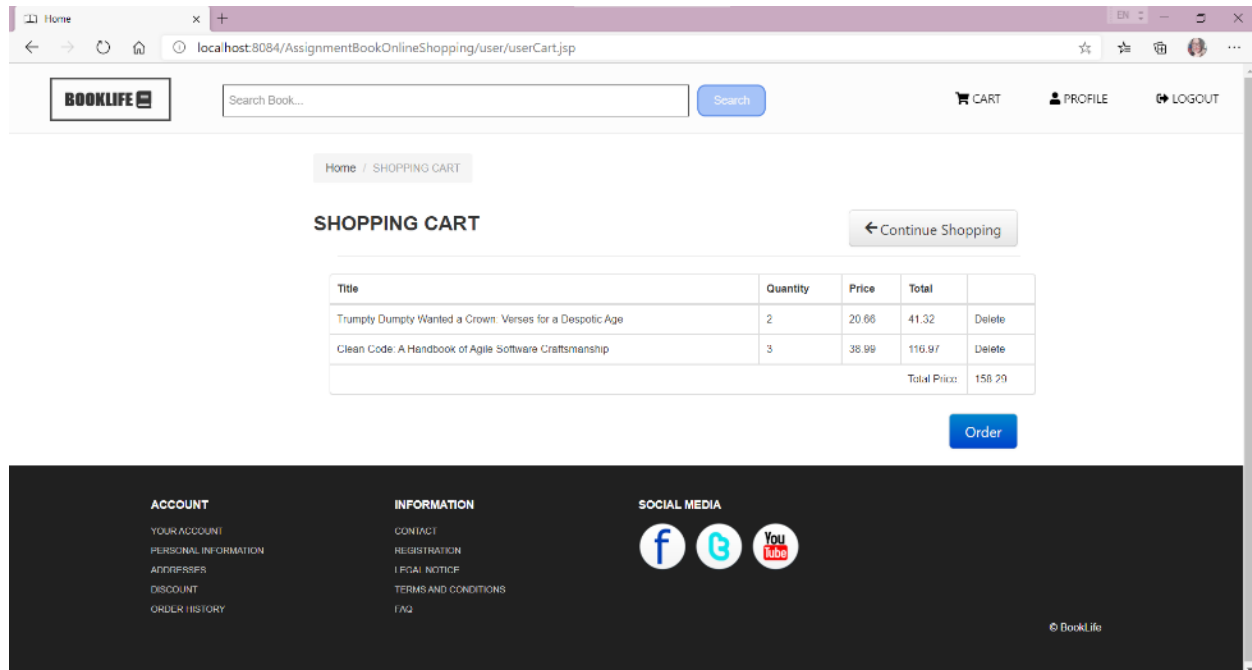
SOCIAL MEDIA

[f](#)[t](#)[You Tube](#)

© BookLife

5.8 Remove Book from Cart

- Cart before remove book from cart

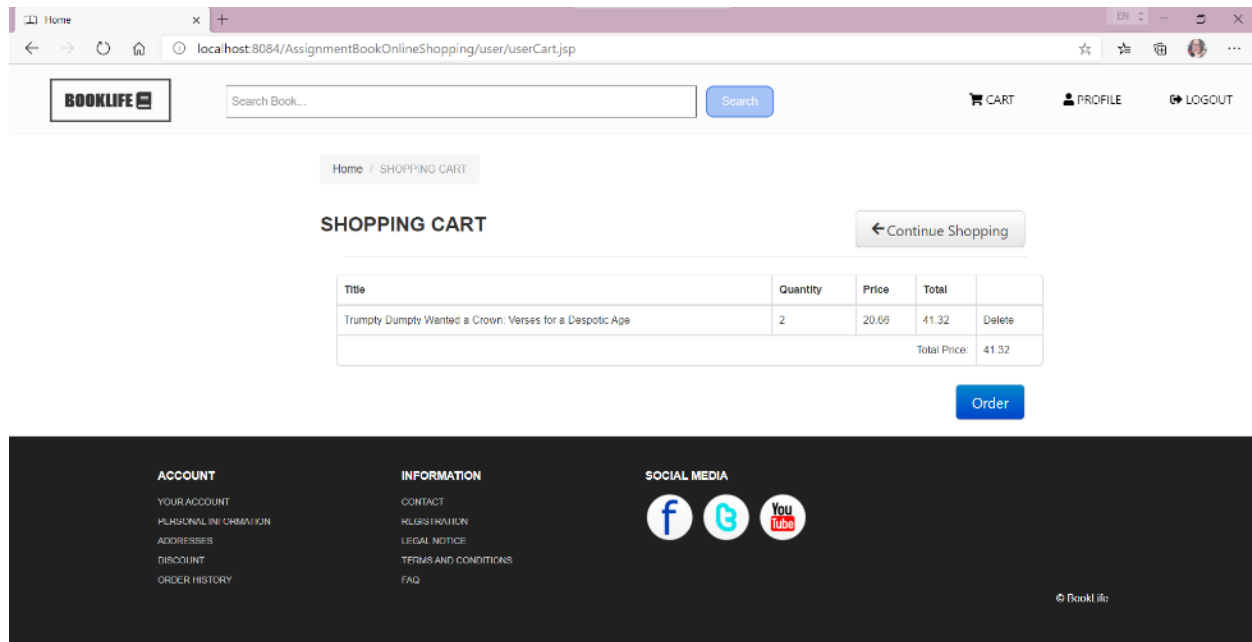


The screenshot shows a web browser at the URL `localhost:8084/AssignmentBookOnlineShopping/user/userCart.jsp`. The page header includes the **BOOKLIFE** logo, a search bar, and links for **CART**, **PROFILE**, and **LOGOUT**. The breadcrumb trail is `Home / SHOPPING CART`. The main heading is **SHOPPING CART**, with a `Continue Shopping` button. A table lists the items in the cart:

Title	Quantity	Price	Total	
Trumpty Dumpty Wanted a Crown: Verses for a Despotie Age	2	20.66	41.32	Delete
Clean Code: A Handbook of Agile Software Craftsmanship	3	38.99	116.97	Delete
			Total Price:	158.29

Below the table is an **Order** button. The footer contains sections for **ACCOUNT** (Your Account, Personal Information, Addresses, Discount, Order History), **INFORMATION** (Contact, Registration, Legal Notice, Terms and Conditions, FAQ), and **SOCIAL MEDIA** (Facebook, Twitter, YouTube). The footer also includes the text `© BookLife`.

- Cart after remove book from cart



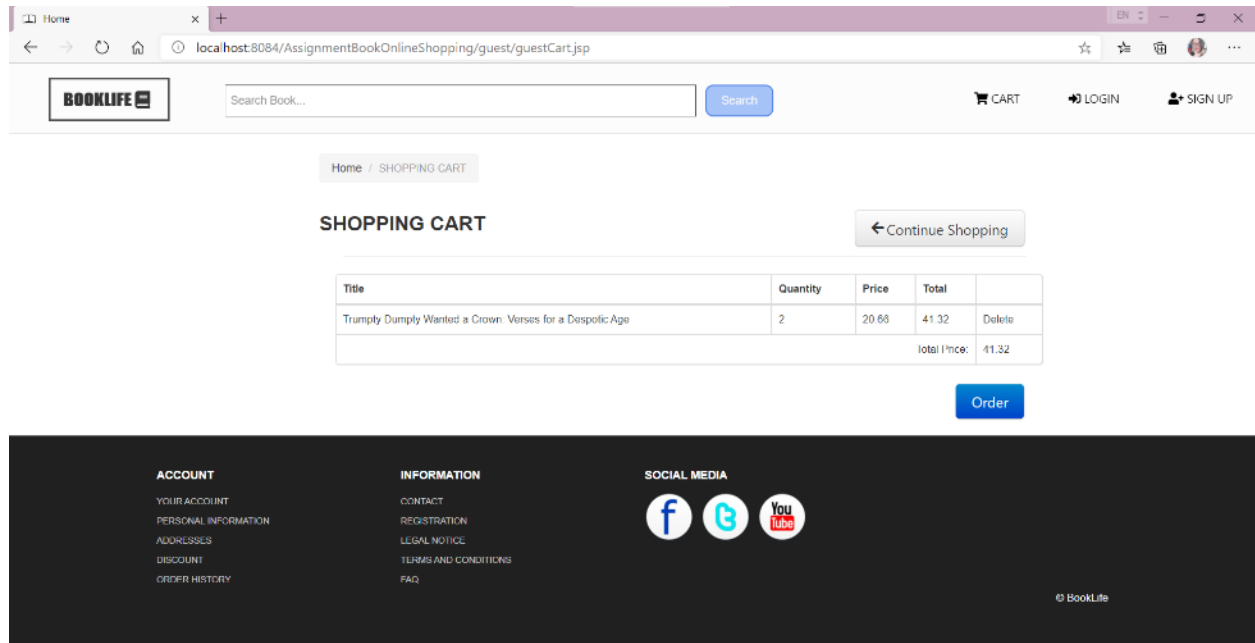
The screenshot shows the same web browser at the URL `localhost:8084/AssignmentBookOnlineShopping/user/userCart.jsp`. The page layout is identical to the previous screenshot, but the table now only contains one item:

Title	Quantity	Price	Total	
Trumpty Dumpty Wanted a Crown: Verses for a Despotie Age	2	20.66	41.32	Delete
			Total Price:	41.32

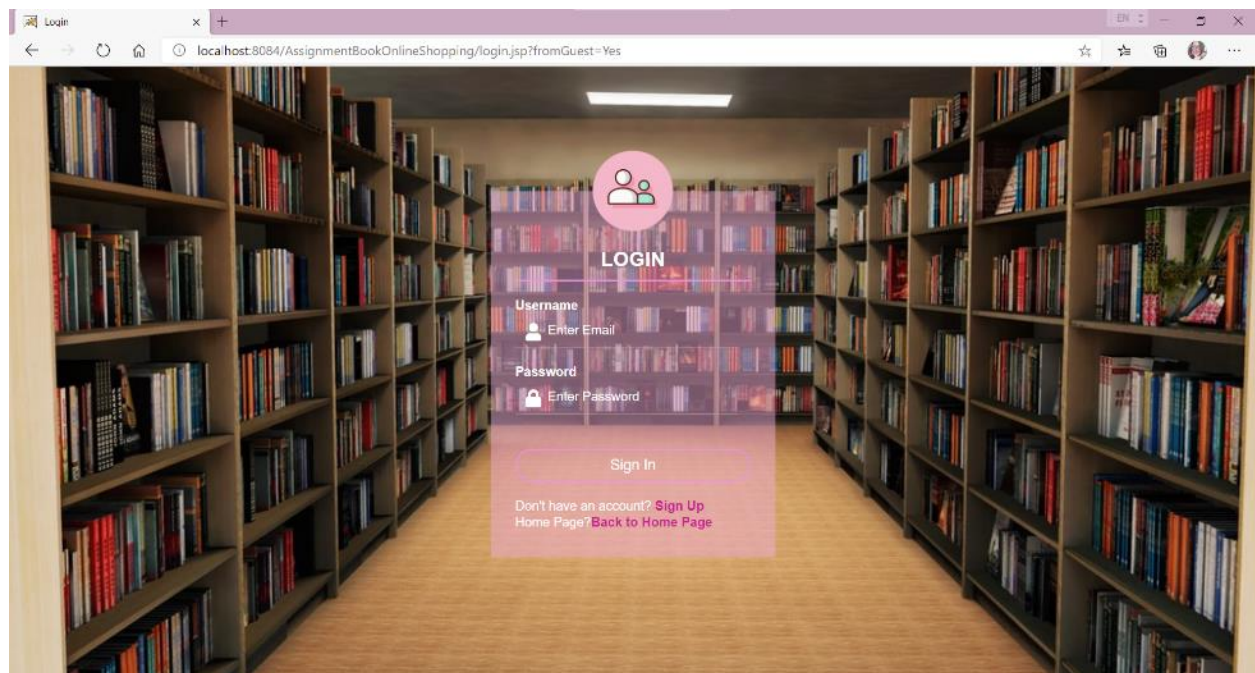
The **Order** button remains visible. The footer sections and `© BookLife` text are also present.

5.9 Order Book

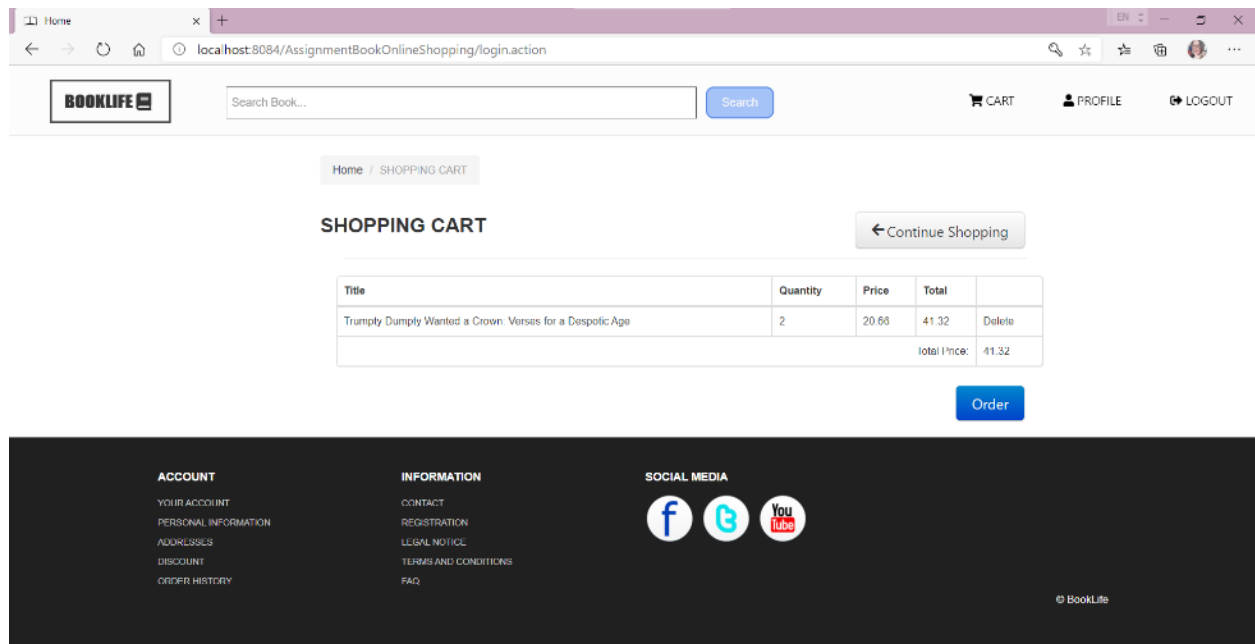
- Click Order



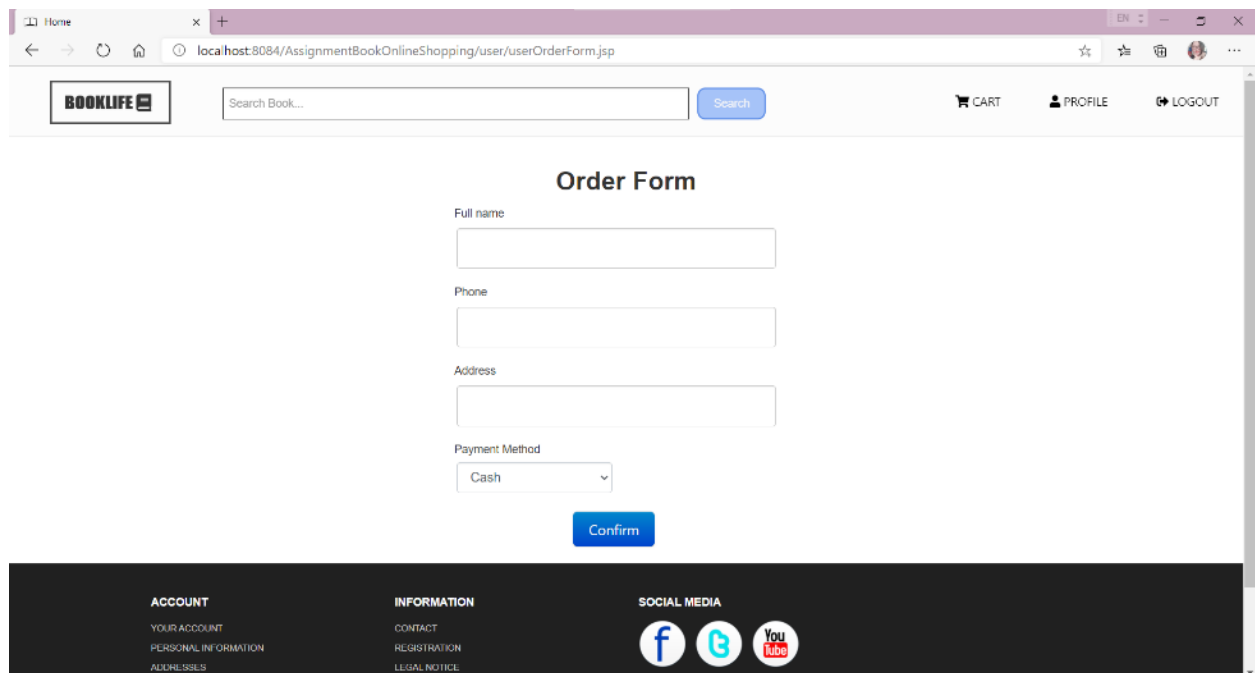
- Required login if not login yet



- Login Successfully and Click Order button again



- If already login, after click Order redirect to Order form



- Input shipping information

BOOKLIFE

Search Book...

CART PROFILE LOGOUT

Order Form

Full name

Hoàng Gia Thiên Phúc

Phone

0979812398

Address

mkmkmkmkmkmkmkmkmkmkmkm

Payment Method

Cash

Confirm

ACCOUNT

YOUR ACCOUNT

PERSONAL INFORMATION

ADDRESSES

INFORMATION

CONTACT

REGISTRATION

LEGAL NOTICE

SOCIAL MEDIA

f t YouTube

- Order Successfully

BOOKLIFE

Search Book...

CART PROFILE LOGOUT

Home / SHIPPING CART

SHIPPING CART

Continue Shopping

Order successfully!! Please wait for shipping

Title	Quantity	Price	Total
			Total Price:

Order

ACCOUNT

YOUR ACCOUNT

PERSONAL INFORMATION

ADDRESSES

DISCOUNT

ORDER HISTORY

INFORMATION

CONTACT

REGISTRATION

LEGAL NOTICE

TERMS AND CONDITIONS

FAQ

SOCIAL MEDIA

f t YouTube

BookLife

5.10 Create new Book

- Book form:

BOOKLIFE

Search Book...

Search

+ CREATE NEW BOOK

PROFILE

LOGOUT

Book Form

Thumbnail Image

Chon tệp | Không có tệp nào được chọn

Main Image

Chon tệp | Không có tệp nào được chọn

Title

Input Title

Author

Input Author

Price

Input Price

Released Date

Input Released Date

Issuers

Input Issuers

Publishing Company

Input Publishing Company

Category

Computers & Technology

Size

Input Size

Cover Type

Input Cover Type

Number of Page

Input Number of Page

Short Description

Input Short Description

Description

Input Description

Create new Book

- Check valid data

BOOKLIFE

Search Book...

Search

+ CREATE NEW BOOK

PROFILE

LOGOUT

Book Form

Thumbnail Image

Chon tệp | Không có tệp nào được chọn

Please choose thumbnail image

Main Image

Chon tệp | Không có tệp nào được chọn

Please choose main image

Title

Input Title

Title is not supposed to be empty

Author

Input Author

Author is not supposed to be empty

Price

0.0

Please input number

Released Date

Input Released Date

Invalid date, please check again

Issuers

Input Issuers

Issuers is not supposed to be empty

Publishing Company

Input Publishing Company

Publishing Company is not supposed to be empty

Category

Computers & Technology

Size

Input Size

Size is not supposed to be empty

Cover Type

Input Cover Type

Cover Type is not supposed to be empty

Number of Page

0

Please input integer number

Short Description

Input Short Description

Short Description is not supposed to be empty

Description

Input Description

Description is not supposed to be empty

Create new Book

- Input all required data:

BOOKLIFE

Search Book...

Search

+ CREATE NEW BOOK

PROFILE

LOGOUT

Book Form

Thumbnail Image

Chon tệp

hyperlinkexample-9026.png

Main Image

Chon tệp

3 tệp

Title

Author

Price

Released Date

Issuers

Publishing Company

Category

Size

Cover Type

Number of Page

Short Description

Description

Create new Book

- Display list book with new inserted book

BOOKLIFE

Search Book...

Search

+ CREATE NEW BOOK

PROFILE

LOGOUT

> Education & Teaching

> Engineering & Transportation

> History

> Humor & Entertainment

> Romance

Clean Code: A Handbook of Agile Software Craftsmanship

Helped bring agile principles from a practitioner's point of view

Update

38.99\$

Trumpty Dumpty Wanted a Crown: Verses for a Despotic Age

Trumpty Dumpty Wanted a Crown is darker and more hard-hitting than ever

Update

20.66\$

The Haunting of Brynn Wilder: A Novel

In this chilling season of love, transformation, and fear

Update

10.99\$

ON THE EDGE

A DUBLIN NIGHTS NOVEL

BRITTNEY SAHIN

On the Edge: A Dublin Nights Novel

Falling for her hot Irish boss is not part of the plan

Update

12.33\$

NATIONAL GEOGRAPHIC

Road Atlas

2021: Adventure Edition

Setting this atlas apart from all other road atlases are the inclusion of detailed maps

Update

20.99\$

BRANDON SANDERSON

RHYTHM OF WAR

Rhythm of War (The Stormlight Archive, 4)

Come to grips with his changing role within the Knights Radiant

Update

20.99\$

dvdvdvs

dvsdvsdvsdv

Update

33.99\$

5.11 Update Book

- Display book form with book's information

BOOKLIFE

Search Book

Search

+ CREATE NEW BOOK

PROFILE

LOGOUT

Thumbnail Image

Chọn tệp không có tệp nào được chọn

Main Image

Chọn tệp không có tệp nào được chọn

Title

Author

Price

Released Date

Isbn

Publishing Company

Category

Size

Cover Type

Number of Page

Short Description

Description

ISBN Producing

Update Book

Disable Book

- Change information need to update

BOOKLIFE

Search Book

Search

+ CREATE NEW BOOK

PROFILE

LOGOUT

Thumbnail Image

Chọn tệp không có tệp nào được chọn

Main Image

Chọn tệp không có tệp nào được chọn

Title

Author

Price

Released Date

Isbn

Publishing Company

Category

Size

Cover Type

Number of Page

Short Description

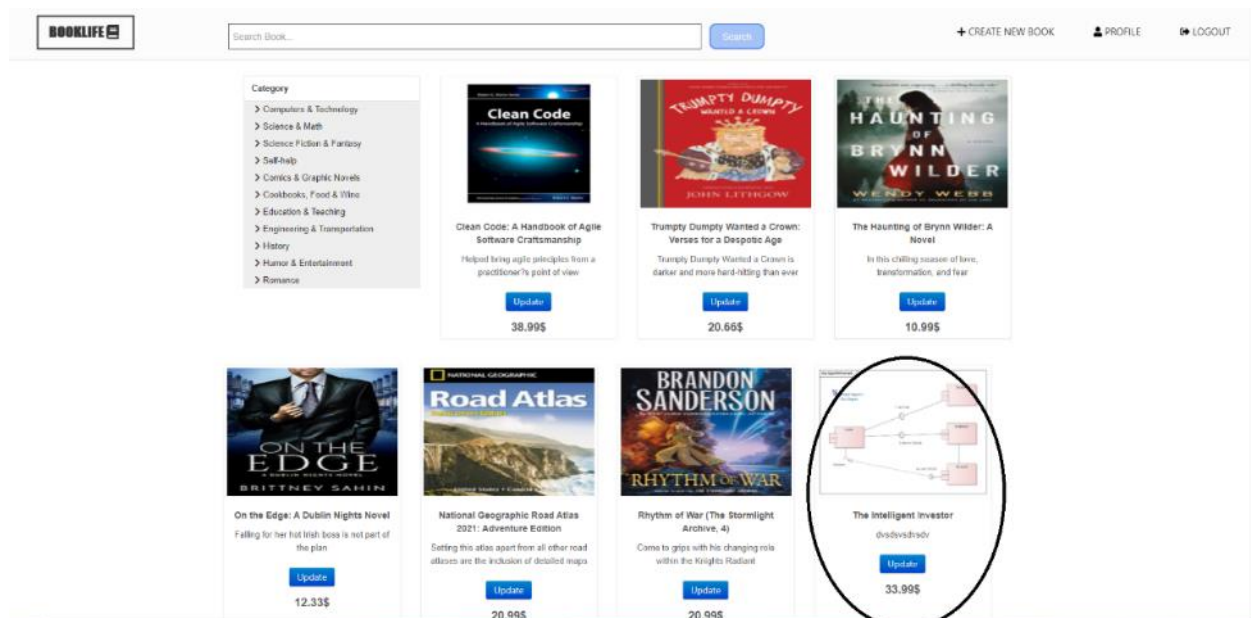
Description

ISBN Producing

Update Book

Disable Book

- Display list book with updated book



5.12 Disable Book

- Display book form with book's information

BOOKLIFE

Search Book...

Search

+ CREATE NEW BOOK

PROFILE

LOGOUT

Category

- > Computers & Technology
- > Science & Math
- > Science Fiction & Fantasy
- > Self-Help
- > Comics & Graphic Novel
- > Cookbooks, Food & Wine
- > Education & Teaching
- > Engineering & Transportation
- > History
- > Humor & Entertainment
- > Romance

Clean Code

Clean Code: A Handbook of Agile Software Craftsmanship

Helped bring agile principles from a practitioner's point of view

Update

38.99\$

Trumpy Dumpty

Trumpy Dumpty Wanted a Crown: Verses for a Despot's Age

Trumpy Dumpty Wanted a Crown is darker and more hard-hitting than ever

Update

20.66\$

THE HAUNTING OF BRYNN WILDER

The Haunting of Brynn Wilder: A Novel

In this chilling season of love, transformation, and fear

Update

10.99\$

ON THE EDGE

On the Edge: A Dublin Nights Novel

Falling for her hot Irish boss is not part of the plan

Update

12.33\$

Road Atlas

National Geographic Road Atlas 2021: Adventure Edition

Setting this atlas apart from all other road atlases are the inclusion of detailed maps

Update

20.99\$

BRANDON SANDERSON

Rhythm of War (The Stormlight Archive, 4)

Come to grips with his changing role within the Knights Radiant

Update

20.99\$

The Intelligent Investor

The Intelligent Investor

divdvdvdvdvd

Update

33.99\$

Thumbnail Image

Chọn file không có file nào được chọn

Clean Code

Main Image

Chọn file không có file nào được chọn

Clean Code

Title

Clean Code: A Handbook of Agile Software C

Author

Robert C. Martin

Price

38.99

Released Date

01/06/2009

Isbn

9780132350864

Publishing Company

Amazon

Category

Computers & Technology

Size

7 x 1.05 x 0.15 inches

Cover Type

Soft

Number of Page

464

Short Description

Helped bring agile principles from a practitioner's point of view

Description

Even bad code can function. But if code isn't clean, it can bring a development organization to its knees. Every year, countless teams and significant resources are lost

Still Producing

Update Book

Disable Book

- If isStillProducing is true, display can not disable

BOOKLIFE

Search Book

Search

+ CREATE NEW BOOK

PROFILE


LOGOUT

Book Form

Product is still producing. Can't disable


Thumbnail image

Chọn file | Không có file nào được chọn



Main image

Chọn file | Không có file nào được chọn



Title

Clean Code: A Handbook of Agile Software C

Author

Robert C. Martin

Price

38.99

Released Date

01/06/2008

Issuers

Pearson

Publishing Company

Amazon

Category

Computers & Technology

Size

7 x 1.05 x 9.15 inches

Cover Type

Soft

Number of Page

464

Short Description

I helped bring agile practices from a niche to a point of view

Description

I've read code like functions. I got it code isn't a class, it can bring a development organization to its knees. Every year, countless hours and significant resources are lost

ISBN Producing

☒

Update Book

Disable Book

- If isStillProducing is false, disable book and display list book without disabled book

BOOKLIFE

Search Book...

Search

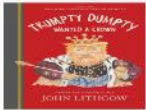
+ CREATE NEW BOOK

PROFILE

LOGOUT

Category

- Computers & Technology
- Science & Tech
- Science Fiction & Fantasy
- Self-help
- Comics & Graphic Novels
- Cookbooks, Food & Wine
- Education & Teaching
- Engineering & Transportation
- History
- Humor & Entertainment
- Romance




Triumpty Dumpty Wanted a Crown: How one lost a Cheshire Age

Triumpty Dumpty wanted a Crown in darker and more heart-killing than ever

Update

20.66\$




The Hunting of Brynn Wilder: A Novel

In the chilling season of time, transformation, and fear

Update

10.99\$

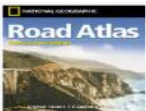


On the Edge: A Darker Nights Novel

Peeking for her first train home is not part of the plan

Update

12.33\$




National Geographic Road Atlas 2021 Adventure Edition

Setting this atlas apart from all other road atlases are the inclusion of detailed maps

Update

20.99\$

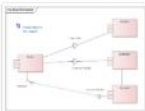


Rhythm of War (The Stormlight Archives, 4)

Come to grips with the changing role within the Knights Radiant

Update

20.99\$




The Intelligent Investor

discontinued

Update

33.99\$



Didn't See That Coming: Pulling Life Back Together

When it comes to the "next season" of life - the death of a loved one, divorce

Update

12.8\$

- Employee form

- Check valid data

Create new Employee

Email

Email must be like abc@abc.abc

First name

First name is not supposed to be empty

Last name

Last name is not supposed to be empty

Phone

Input Phone

Gender

Female

Address

Description

Create new Employee

- Input all required information

Book

[+ CREATE NEW BOOK](#)
[+ CREATE NEW EMPLOYEE](#)
[LOGOUT](#)

Create new Employee

Email

First name

Last name

Phone

Gender

Female

Address

Description

- Display list employee with new inserted employee

Book

[+ CREATE NEW BOOK](#)
[+ CREATE NEW EMPLOYEE](#)
[LOGOUT](#)

Type

[Book](#)
[Employee](#)

Category

[Computers & Technology](#)
[Science & Math](#)
[Science Fiction & Fantasy](#)
[Self-help](#)
[Comics & Graphic Novels](#)
[Cookbooks, Food & Wine](#)
[Education & Teaching](#)
[Engineering & Transportation](#)
[History](#)
[Humor & Entertainment](#)
[Romance](#)

Full name	Email	Phone	Gender	Update	Delete
Le Duc Hoang Phuc	phucdthnnh@gmail.com	0949993994	M	Update	Delete
Hoang Phuc Le Duc	phucdthnnh@gmail.com	0949993994	F	Update	Delete

ACCOUNT

[YOUR ACCOUNT](#)
[PERSONAL INFORMATION](#)

INFORMATION

[CONTACT](#)
[REGISTRATION](#)

SOCIAL MEDIA

5.14 Update Employee

- Display employee form with employee's information

BOOKLIFE

Search

Book

Search

+ CREATE NEW BOOK

+ CREATE NEW EMPLOYEE

LOGOUT

Manage Employee

Email

phucdh@gmail.com

First name

Hoang Phuc

Last name

La Duc

Phone

0983848388

Gender

Male

Address

HCM

Description

Description

Is Working

☒

Role

Employee

Update Employee

- Change information of employee

BOOKLIFE

Search

Book

Search

+ CREATE NEW BOOK

+ CREATE NEW EMPLOYEE

LOGOUT

Manage Employee

Email

phucdh@gmail.com

First name

Phuc

Last name

La Duc

Phone

0983848388

Gender

Male

Address

117 Tam Tinh Tan Phu, HCM

Description

Description

Is Working

☒

Role

Employee

Update Employee

- Display employee list with updated employee

BOOKLIFE

Search

Book

Search

+ CREATE NEW BOOK

+ CREATE NEW EMPLOYEE

LOGOUT

Type

> Book

> Employee

Category

> Computers & Technology

> Science & Math

> Science Fiction & Fantasy

> Self-help

> Comics & Graphic Novels

> Cookbooks, Food & Wine

> Education & Teaching

> Engineering & Transportation

> History

> Humor & Entertainment

> Romance

Full name	Email	Phone	Gender	Update	Disable
Le Dai Phuc	phucdh@gmail.com	0983848388	M	Update	Disable
Huong Thuc Le Dai	phucdinhth@gmail.com	0983848388	F	Update	Disable

5.15 Disable Employee

- If isStillWorking is true, display can not disable

BOOKLIFE

Search

Book

Search

+ CREATE NEW BOOK

+ CREATE NEW EMPLOYEE

LOGOUT

Type

> Book

> Employee

Category

> Computers & Technology

> Science & Math

> Science Fiction & Fantasy

> Self-help

> Comics & Graphic Novels

> Cookbooks, Food & Wine

> Education & Teaching

> Engineering & Transportation

> History

> Humor & Entertainment

> Romance

Can't disable. Employee is still working

Full name	Email	Phone	Gender	Update	Disable
Le Dai Phuc	phucdh@gmail.com	0983848388	M	Update	Disable
Huong Thuc Le Dai	phucdinhth@gmail.com	0983848388	F	Update	Disable

- If isStillWorking is false, disable employee and display list employees without disable employee

BOOKLIFE

Search

Book

Search

+ CREATE NEW BOOK

+ CREATE NEW EMPLOYEE

LOGOUT

Type

> Book

> Employee

Category

> Computers & Technology

> Science & Math

> Science Fiction & Fantasy

> Self-help

> Comics & Graphic Novels

> Cookbooks, Food & Wine

> Education & Teaching

> Engineering & Transportation

> History

> Humor & Entertainment

> Romance

Full name	Email	Phone	Gender	Update	Disable
Le Dai Phuc	phucdh@gmail.com	0983848388	M	Update	Disable

6. Conclusion and Discussion

Pros	Cons
User's interface looks good and easy to use	Some data must be change auto when user interacts with UI
All function and page switching are smooth and reasonable	Have some hardcodes when notify error or success
It closes to reality Book Management System	Sometimes, UI is broken (the footer goes higher)
It provides a shopping system in accordance with market requirements	Not display who is login
	Do not write log file (who is login, exception, etc.)

- What out team learned from this assignment:
 - It is not easy to construct a website with manage products and shopping products.

- How to combine template website with struts2 framework form (our template broke many times when we apply struts2 form)
 - Develop our logical thinking, how to switch page reasonably and easy for user to use
 - Understand more about user's experience (the way we switch wrong page can make users uncomfortable and do not know do what is next)
- In the future, if have more time to constructs this system, we will:
- Display a modal form to let user confirm update or disable account instead of coming to a confirm form page
 - Use ajax to can update information when user interacts with UI
 - When user choose file image, display it to let user confirm that they insert correct images
 - When user update book, they can choose the file they want to update, do not need to update all image files
 - Update UI to display book (the book frames are deviated from the ones above).
 - Display best-seller book.
 - Display profile with image of user and allow them to add their image or edit their image
 - Add view report function for employees and manager
 - Manage quantity of book
 - Add a real-time notification to notify customer about discounts.

7. Contribution

8. Topic	Team Effort	Thien Phuc	Khanh Vy	Gia Hao
<i>Case Study Analysis</i>	100%	40%	25%	35%
<i>Database design</i>	100%	20%	40%	30%
<i>System design</i>	100%	35%	35%	30%
<i>Implementation</i>	100%	50%	20%	30%
<i>Documentation</i>	100%	25%	40%	25%

9. References