NORTH SOUTH UNIVERSITY

Department of Electrical and Computer Engineering
Fall, 2020

Course: CSE482L

Section: 03

Project: Online BookShop

Group: Theta

Prepared By:

Name	ID
Taufiqur Rahman Anik	1711474042
Md. Sharif Hossain	1712336642

ACKNOWLEDGEMENT

First, we express our gratefulness to almighty Allah for His blessing which makes us possible to complete the project.

We are grateful to **Muhammad Arifur Rahman**, Lecturer, Department of ECE, North South University, Dhaka and also to our lab instructor **Taif Al Musabe**. Deep Knowledge & keen interest of our supervisor in the field of "web development" to carry out this project. Their guidance, constant supervision, enthusiastic, encouragement, sagacious advice and an effective surveillance throughout the entire period of the project have made it possible to complete this project.

We would like to thank our entire CSE 482 course mates in North South University, who took part in this discuss while completing the course work.

ABSTRACT

The goal of this master's project is to design an online bookstore named BookShop mainly sells computer and technical books. Customers can access the bookstore web site through the World Wide Web. Customers will be able to search the database to find the books they want, check the availability, and place the order to buy the book using their credit cards.

This bookstore also provide a software bridge to two real commercial online bookstores: Bookpools.com and Fatbrain.com. This bridge allow customer to search the inventory of these real bookstores, and display the searching results such as the title, the price and availability of the book.

TABLE OF CONTENT

Contents

Introduction

This is website named **BookShop t**hat provides platform for book enthusiasts and readers to share their reviews and opinions regarding every and any book. Our mission is to help people find and share the books they love through this platform. This platform aims to give the people easy and quick to access to real and authentic book reviews. This document contains detailed description of the product requirements, development plan, product vision and objectives and user stories, phase wise development outline and outcomes. This document will remain as a living document to be shared online collaboration to undergo phase wise changes as the product i.e. the portal matures into a value-generating platform.

Background and product Context

Book reviews are necessary to find the correct book for the readers according to their choice. Therefore, due to the growing demand there developed some websites and even apps to find, search and obtain reviews on different books. These sites allow readers to freely search a book and gain necessary information on these books like its summary, price, reviews and sometimes even the location where they can be found. The readers can also open an account to post reviews and ratings on different books. Some of the websites also allow advertisements of new books of new authors in exchange of some monetary value. This is how some of the websites are monetized. In this process, the readers can freely browse and look for authentic book reviews whereas the authors need to pay for the advertisements of their books. In the world context, websites like Goodreads, Library Thing, Kirkus, Bookish, etc.

There are social media pages that also plays the role of a like the book review websites. Facebook, twitter, Instagram has pages, groups and blogs allow the readers

and the authors to interact through posting books reviews, advertising their books and creating different events regarding book sale or book promotions and gatherings. These Social media platforms play very important role in the book reviews as well and they are vital for the readers to gain knowledge about latest book updates and reviews.

Our website is also a platform where the readers can search, find and posts reviews of the books. There are two panels-one admin panel and user panel. The admin control and maintains the whole website. The admin can login in regulate the posts on the website, adds books and maintains the quality and authenticity of the website. The users can create an account, later they can sign in, posts reviews about books, and rate them. They can also search different books and know their summary. Our website directly competes with the websites mentioned above and the social media book review platforms. However, our website reflects and maintains authenticity by filtering out fake posts and reviews from fake accounts which most website fail to provide. The task of filtration is carried out efficiently our admin. This platform helps user to find the best book for them through authentic and correct reviews, which helps them save money by not buying a book they might not like.

User Story

As a user	I want to	So that
As a user	Sign in/sign up to the website	I can access and exit the system any time
As a registered user	Update my profile information	I have control over the information about my profile
As a registered user	Post reviews and rate books	I can share my experience with others
As a normal user (both registered/visitors)	Search books based on my preference: 1.Book title 2.Author 3.Top rated 4.Genre	I can read review posts, ratings, information about that book

Use Case 1:

Title: Create new user account

Actor: User

Description:

1. Input user id, password, confirm password, name, address, date of birth

2. Check if the user id is unique or not

3. Store user name into database

Exception:

1. Required page not found

2. No database connection

Precondition:

        1. URL of "New user" hyperlink page

Post condition:

1. Successful: Create new user account successfully

2. Unsuccessful: Stay in the same page

3. Exception: Stay in the same page if possible

Use Case 2:

Title: Update user account/profile

Actor: Registered User

Description:

1. Change profile information like password, name, address, date of birth

2. Add profile picture/avatar   3. Update user name

    into database

Exception:

1. Required page not found

2. No database connection

Precondition:

        1. URL of "My profile" hyperlink page

Post condition:

1. Successful: Update user account successfully

2. Unsuccessful: Stay in the same page

3. Exception: Stay in the same page if possible

Use Case 3:

Title: Post a review **Actor:**

Registered User

Description:

1. Write a book review

2. Add images, rating etc.

3. Post the review on review page

4. Save it on database

Exception:

1. Required page not found

2. Posting error

Precondition:

   1. URL of "Write a review" hyperlink page

Post condition:

1. Successful: Post new review successfully, show it in the website

2. Unsuccessful: Stay in the same page

3. Exception: Stay in the same page if possible

Use Case 4:

Title: Search book review

Actor: Normal user

Description:

1. User can search book reviews based on title, author, popularity (top rated)

2. User can view all the related book reviews about the searched book and

3. User can comment and rate the book

Exception:

1. Required page not found

2. No search result found

Precondition:

1. URL of "Search" hyperlink page

Post condition:

1. Successful: Run a SQL query successfully, show all the reviews from database

2. Unsuccessful: Stay in the same page

3. Exception: Stay in the same page if possible

FRONT END DEVELOPMENT

Programming Language That Have Been Used

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. We used latest version of HTML, which is HTML5.

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML. We make our HTML structure looking with more interactive with CSS. We use latest version of CSS, which is CSS3.

Java Script (JS): We use JavaScript programming language, when a webpage is to be made dynamic and add special effects on pages like rollover, roll out and many types of graphics.

BACK END DEVELOPMENT

Programming Language That Have Been Used

PHP: Hypertext Preprocessor (or simply PHP) is a general-purpose programming language originally designed for web development. We are using PHP

programming language for our backend development. It provides many features for creating our system much easier.

We are using MySQL database for storing data. It is open source software. MySQL is relational database system for storing structured data. MySQL is a component of the LAMP web application software stack (and others), which is an acronym for Linux, Apache, MySQL, Perl/PHP/Python. Using php programming language, MySQL load data much faster rather than any other database system. We store our all data in different tables in database and fetch from it.

DEVELOPMENT PERIOD HISTORY

First Week: In this week, we plan for our system. Which features are needed for our system?

Second Week: We divided our work. First, we create front-end template for user sign up and login. We have also created the homepage.

Third Week: We have completed all the front-end work using raw html and css.

Fourth Week: We changed our front-end design for better graphical interface.

Fifth Week: In this week, we will start working on backend with PHP and JavaScript. We will work because creation and password recover. We will create sign up form, verification by email or mobile, Facebook login, google login. Moreover, start to create the database.

Sixth Week: We have done the form validation of all the pages using java script.

Seventh Week: We will proceed to admin profile, reviewer's profile. In addition, complete all backend work with implementing search with Ajax live search or elastic search.

Eighth Week: In this week, we plan for design our database and create our all related table in our database with MYSQL. Moreover, start working on API and web hosting.

Ninth Week: We will complete API and web hosting. Then work on if any work is left.

We completed our project in time. We worked as a team. Our all goals and requirements are fully finished before the deadline. Every kinds of work, we discuss with our member. For this reason, we are easily finished our project before the deadline. Our communication process helps to make progress faster.

Collaboration Plan

Tasks	Schedule	Member Name
Project proposal	ongoing basis	Taufiqur (T),Sharif (S)
Homepage	2nd 3rd week	T,S
Database Design, Use case	5th 6th week	T,S
ER Diagram, Database Schema	5th 6th week	T,S
Front- End	3nd 4rd week	T,S
Search	5th week	T,S
Unit testing	9th week	T,S
Back-end	6th,7th week	T,S
Software design model	8th week	T,S

CONCLUSION

We, the project contributors are still learning and we have a lot of lacking in knowledge to make a dynamic website. Within this short time, it was a very hard challenge to complete the project. Some exceptions might not have handled properly. There might me some error in backend database and networking. The limitations are expected to be covered in next updates.

REFERENCE

[1] Documentation and instruction https://www.w3schools.com

[2] Documentation and instruction https://codeigniter.com/

[3] Definition Source https://www.wikipedia.org/

Appendix

Contact information:

Team name: Theta

Contact Person Name: Taufiqur Rahman Anik, Md. Sharif Hossain

Email: taufiqur.anik@northsouth.edu, sharif.hossain02@northsouth.edu

Mobile: +8801718003362, +8801773241632

Bashundhara Residential Area, Dhaka, Bangladesh.