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| A picture of a winding road and trees  Hermes Library  S3879954 – Software Engineering Student | Abstract  A web project for assignment 1 in Web Programming course  Nhung Tran – s3879954@rmit.edu.vn  RMIT University - COSC2430 |

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# Introduction

The website 'Hermes Library Website' is a book trading website. Using this website, the users can find and buy their books, or selling if they want to sell their books. The main purpose of this website is to bring the books globally, so that the book lovers can reach and exchange the books from anywhere and anytime they want.

## General Scope

Technically, this project concentrates on frontend instead of developing backend. The primary purpose of buiding this project is to reinforce the knowledge of html, and plain css, especially styling responsive and animation in this website. Besides, this project aims to let the coders understand the importance of using javascript and dynamic program in developing the website. Finally, this project aims to help the web coders who are in beginner level improve their CSS skills and using tags inside HTML file. After this project, they are expected to be able to write CSS and HTML fluently and understanding clearly why applying JavaScript to web programming.

In this project, there are several requirements, including using plain HTML and CSS to style and add animation, having responsive design, having 4 compulsory types of pages with specific requirements for each page, et cetera. Therefore, in this project, for Home, Category, there are book list displayed to the users categorized following its category. On the other hand, in Book Detail page, the users can view the book information in details with images and description. In Contact page, there is a form to input the contact information if the users want to buy or sell books. In other pages, including About, Privacy, Terms, and Copyrights, the users can understand clearler about the webite company and its policy. Finally, all pages are styled with animation when hovering, and include responsive design – mobile, tablet, and desktop.

However, because the objectives of this project concentrate on the improvement of using HTML and CSS, there is no backend for this project. In other words, the users can only view the book list, the Contact form information will not be sent to the client. And all `Add to cart` buttons in Detail page will only display a message modal.

The main resources in this project are HTML, CSS, and some JavaScript for animation control. And some contents are referenced from big e-commerce companies, including Apple, Amazon, et cetera.

This project lasts for 4 weeks. The first week is for researching, the second week is for designing, and two final weeks are for implementing this project.

# Project Description

## Describe Features

There are couple of features: view list of books which are categorized following its categories, sub-categories, navigate between pages, input contact form, and header images to recognize which websites the users are in. Inside Navigation bar, the users can navigate to a specific Category page and Contact page. While in footer, the user can navigate to Privacy, Terms, Copyrights, and About Us pages to understand more about this website. Not only that, but the users can also mail directly to the website author at the end of footer if they have any urgent problems.

Inside the Homepage, the users not only can view the categorized books, but they can also watch the videos about book reviews so that they can decide which books to buy easier. There is also a header image at the beginning of the page displaying following message.

Inside the Category page, the users can navigate to each sub-category section, or they can navigate to Book Detail page as in Homepage. Inside the Book Detail page, the users can view all the books’ information, including book images, its price, name, authors, description. This book information can be also inside Homepage, and Category page in summary. The customers can also click `Add to cart` button, there will be a small modal notifying that they have added the book to cart successfully.

Inside Contact page, the users can fill in the Contact form, including their contact purpose, name, contact preference, et cetera. This contact form’s all inputs are in required fields, excepting for extra note input field. Therefore, if the users click submit without inputting one of those following required fields, there will be a message prompting the users to input. After inputting all required fields, and clicking submit button, there is a modal notifying user having been successfully submitted. Not only that, but the users can also delete all inputted information by clicking reset button.

Finally, responsive design is applied to all existing pages, and some of the components, including buttons, images, welcome header images inside Home and Category pages, contain animation when hovering or clicking. There is also difference in font family for titles, navbar elements to improve the users’ vision.

## What I’ve Learned

By implementing those features, I learned how to add animation delay and use CSS variables effectively to make the website more appealing, and eye-catching with animation in header welcome image. Besides, I learned how to use Flexbox and Grid, font size variables, sizing variables to implement responsive design. Inside navigation bar, I also learned how to add modal when in mobile screen and how to toggle that modal with hamburger button without using JavaScript.

Inside Contact page, I understood clearly how usable the types of input elements are, and how to apply these types of inputs to real life application. And how to style and create a modal when the users click on a button like ‘Add to cart’ inside Book Detail page or ‘Submit’ inside Contact form.

# Implementation Details

## Design Decision

**Color choosing**. Inside this project, to make the customers concentrate on the content, I choose `white`, `black`, and one random color, which is called ‘monochromatic compositions’ []. In this case, that random color is `brown` color, because the books are made of wood, so that the customers can memorize the role of the trees in helping bring the wisdom to humanity. Besides, I did not use plain `white`, and `black`, instead, I used a bit yellowish white, and a bit brownish black color to suit with the `brown` color I chose.

**Font choosing**. I chose 4 fonts inside this project. One font is for header title of the page, one is for subtitle, one is for header for each section, and the final one is for the rest of the content. Three of them are handwritten fonts to suit with the books website subject.

Finally, I also decided to add header welcome image at the beginning of Home page and Category pages. I want to ensure the users feel welcomed when they first come to my website, and they can know which category page they are in when they use the website.

## Technical Details

For displaying sections inside pages’ content, I use flexbox to have synchronous gap between sections instead of applying margin or padding to each element.

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For displaying list in all pages,

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## Features Have Done

## Bonus Feature

# Conclusion

# Reference

# Appendix