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COSC2430- Web Programming

REPORT

BOOKSTORE WEBSITE

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VI. INTRODUCTION

Summary of this project. What is it, general scope and objective of this project and this document.

This goal of this project is to create a bookstore website. The website consists of four main pages: a Home page, two category pages, and a Contact page. It aims to present different categories of books, their sub-categories and detailed information about each book to the user. It also has a contact page for the user to contact the store owner, and vice versa.

This document serves as a documentation about the project and a bit of self-reflection of the developer. The documentation provides insights into what features this project has, and the procedure for completing each feature. Meanwhile, the reflection helps the developer to note down the lessons they learned from carrying out this project, as well as acknowledging their existing shortcomings.

VII. PROJECT DESCRIPTION

1. Describe the technical aspects or features of the system.

- Global elements:

- Header & Footer:

Every page of this website has a header and footer. The structure of the header and footer is the same across all pages. Regarding the header, it has a logo image on the left, and navigation bar on the right side. This navigation bar consists of three elements which display as links: Home, Children's Books and Non-Fiction Books. Each element takes the user to the page with the same name. The logo image is also a link that directs users to the Home page. The Home page is the default page that the user will see when they visit the website. The navigation links of the header are interactive, when the user hovers over each link, there will be a line running underneath the text.

The footer has five elements that display as links: About us, Privacy Policy, Terms, Copyright and Contact Us. Only the "Contact Us" would open another page (Contact page).

In desktop view (screen width > 960px), all links of the header and footer lay horizontally. On the other hand, in mobile view (screen width <= 960px), the links of the header would be displayed vertically (each link stays on a single line). What's more, those links would be hidden from direct view of the user; instead, the user only see a hamburger menu on the right side of the header. Only when they hover over it, the navigation bar would appear as drop-downs. The color of the background and the line running underneath each links of the header is different on different pages.

- Social media icons:

There are three social media icons, namely Facebook, Instagram and WhatsApp. These icons are located at the bottom of each page, right above the footer. They act as links.

- The website has four main types of pages: Home page, category page, book detail page and Contact page.

- ◇ Home page.


This page has several sections:

- Showcase section.

This section is located at the top of the page. It has a moderate height, with its content positioned at the heart (center horizontally and vertically). It is divided into two sides, on the left side there is a quote, the author of that quote, and a button "Explore now" at the bottom. The button takes the user to the Our Book Collections heading below in that same page, and it changes background color when it is hovered. On the right side is an image.

In mobile view (screen width <= 960px), the image shrinks in size and the quote has smaller font.

- Fun demonstration section

This section aims to illustrate the benefits of reading to visitors of the website. At first glance, there is a text "**Hover** over the tree below  " at the top, and an image of a tree at the bottom. When the user hovers over this section, another text would appear below the

previous text, which says “With every book that you read, you are raising your own tree of wisdom □”. Moreover, the tree image when hovered would gradually increase in size.

- Children’s Books section

This section has a heading as a link, it would go to Children’s Books page (one of the two category page) if clicked. It displays three books of the category children’s books. Each book is displayed with its cover image and its title. If clicked, the book will take the user to the book detail page of that specific book. When a book is hovered, there would be a colored shadow around that book. This section has a background image of a stage curtain.

In mobile view, the books are displayed vertically, which means there is one book for one line.

- Non-Fiction section

This section has the exact same structure as the Children’s Books section. The only difference is that this section serves the purpose of displaying books of the category non-fiction.

- Video/Music section

This section’s purpose is to suggest some music to the readers. It embed two videos from YouTube. When the user clicks a video, it would be played. The videos are displayed horizontally in desktop view and vertically in mobile view.

- ◇ Category page.

There are two category pages. The first one is “Children’s Books”, and the other is “Non-Fiction Books”. In each category page, there are three sub-categories. Each sub-category has three books of its type. The books of each page are interactive to the users, when the user hovers over them, the box shadow around each book would change.

In desktop view, the three books of each sub-category are displayed horizontally.

Furthermore, in each category page, there is one aside bar on the right side, which acts as a

small quick navigation bar inside that page. The aside bar has a title of “Go to your favourite book”, and includes the name of three sub-categories as links. When the user clicks one of those names, they would be taken to the corresponding sub-category section on the page. The sub-categories names are also interactive, their background color changes when they are hovered over.

In mobile view, there is no aside bar. What’s more, the three books of each sub-category are displayed vertically, and they slightly increase in width.

◇ Book detail page.

There are six book detail pages:

- + Goodnight Moon
- + Ricky, the Rock That Couldn’t Roll
- + How Everything Works
- + Turks & Caicos Islands
- + 5-Ingredient Cooking for Two
- + Battles that Changed History

Each displays the images about the book, price, a button “Add to cart”, book title, description, author information: picture, name, description. It also includes a breadcrumb, in the format “Home > Category page > Book title”. The “Home” and “Category page” are links that lead to the corresponding pages. There are four images in total, the largest image is the book cover, the other three small images are the book content. When the user hovers over the one of the three small images, it would become larger instantly. The button “Add to cart” changes its background color when it is hovered.

The book images, price and “Add to cart” button are displayed together as a single section in the page. In desktop view, they are laid horizontally, and vertically in mobile view.

Right underneath is the book title and its description. Then a horizontal line separates the page. Further below is the details about the author: the author image on the left and their name, description on the right.

In mobile view, all elements on the page would become closer to the margin to save space.

◇ Contact page.

The user can reach this page by going to the footer, and click “Contact Us”. In this page, there is a heading at the top, and a form right below.

The form includes many fields: contact purpose, name, email, phone number, contact preferences, receive weekly newsletter, extra notes. When the user clicks the label for each field, they would be taken to the input box of that field. At the end of the form are two buttons: submit and reset. The contact purpose is a drop-down with two main options “I want to buy books” and “I want to sell books”. At first, when the user has not chosen any options, the option titled “Please choose an option” would be chosen by default. The Name, Email and Phone number are enclosed in one rectangular box. In the Contact preferences and Receive weekly newsletter, the options are checkboxes and radio buttons respectively, and they are on the same line with the field name. For the Receive weekly newsletter, the “Yes” radio button is checked by default. The input for Extra notes is a medium large text box. The required fields has a red asterisk at the end. Lastly, the button Submit would submit the form, and the button Reset would clear all values that the user has just inputted.

2. Things I have learned from this project.

- I should design the structure of the website before starting to code.

This would give me the overall mindset of what steps should be done, and therefore declare appropriate values for margin, padding, etc. Because I did not follow this and insert elements into the html file spontaneously, I had to spend a lot of time debugging afterwards.

- A website to convert images to PNG: <https://image.online-convert.com/convert-to-png>

I have tried many websites to convert my logo image to PNG, and they did not work out as I expect, my image still has a white background. But this website works, on the condition that you scroll down a bit to Optional Settings, and choose “Remove background”.

3. Specifications (technical details) that is important, useful, and necessary to implement features of the website.

- Flexbox makes alignment of objects very easily. It also provides flexibility when switching between desktop and mobile view, a simple approach is to change flex-direction.
- In certain circumstances, using percentage for width is more helpful than exact pixels. For example, I used percentage width for the showcase image of Home page, and when the screen is resized, the image would shrink or grow automatically, still ensuring the aesthetics of the page.
- The aside bar with sub-category names as links makes navigating within the website conveniently. When combined with “position: fixed” and “height: 100%”, the aside bar is not obstructed by any element, and it moves alongside the scroll of users, so they can click it at any time.

VIII. IMPLEMENTATION DETAILS

- All of the technical details to explain how you design (justify your design decisions) and implement this website to meet the requirements.
- Global elements:

+ Header:

display: flex – all elements stay on one line

justify-content: space-between – the elements are pushed to both ends

+ Footer:

Display: flex - all elements stay on one line

Justify-content: flex-end – the elements are pushed to the end (right side in this case)

- Home page:

+ Category 1, category 2

Heading Category 1, category 2: text-align: center- the text goes to the center of the page.

Book1, book2, book3 are put in a <section> tag, then display: flex- all books stays on one line.

- Category page:

Same as Home page.

- Book detail page:

+ Breadcrumb:

Use for each element so that all of them stay on one line. Embed <a> tag inside the so that Home and Category are links.

+ Book images, book price, add to cart:

Images: declare appropriate height for book image and image1, image2, image3 using height. From the <div> that contains all four images, declare display: flex – four images on one line. Enclose the small images in another <div>, with class="image-supplement". Target that div, declare display: flex, flex-direction: column – three images are vertical.

Book price, add to cart button: enclose these two in a <div>

+ Book title: use <h1> tag

+ Book description: use <p> tag

- Contact page:

Use <label> and <input> where appropriate. Also be aware of <textarea> and <button>.

Add "required" to required fields. Use type="checkbox" or "radio".

- Also, mention any extra bonus feature or work you implement beyond the required features.

+At the bottom of each page there are social media icons.

+ Add showcase and fun-demonstration section in Home page

+ Add author information in book detail page

- Also, please includes:
 - Multiple visual aids (screenshots/illustrations/GIF/video) to show visually how to use the app and illustrate your explanation.
 - The list of features you have completed. Also, including any extra feature if available.

All features declared in the requirement of this assignment are achieved.

- The list of known bugs/problems you has not fixed.

+ In the showcase section of Home page, the quote and its author are off from the box with class="left".

+ In Home page, Category page, in mobile view, when I increase the width of the books, the height is not adjusted in proportion automatically.

IX. CONCLUSION

This project has helped me a lot in improving my skills of HTML and CSS coding. I also learnt many lessons in the process. I would apply the takeaways I gain from this project to the future projects that I build.

X. REFERENCE

- Providing any link & Acknowledge any source you have used to complete this assignment.

+ Amazon.com

+ The Odin Project

+ Google fonts

+

[https://www.verywellfamily.com/thmb/BnnfEkEY76ilfrqsu1p8w9Gjct8=/1500x0/filters:no_upscale\(\):max_bytes\(150000\):strip_icc\(\)/Getty_girl_books_smiling_LARGE_JGI-Jamie-Grill-56a13e783df78cf77268bb18.jpg](https://www.verywellfamily.com/thmb/BnnfEkEY76ilfrqsu1p8w9Gjct8=/1500x0/filters:no_upscale():max_bytes(150000):strip_icc()/Getty_girl_books_smiling_LARGE_JGI-Jamie-Grill-56a13e783df78cf77268bb18.jpg)

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+ <https://www.youtube.com/embed/1PHC7tirDs>

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