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## **1. Introduction**

### **1.1 Project Summary**

This project report outlines the process of designing and developing an online platform for customers to purchase books across various categories. The website features three main categories: fiction, nonfiction, and children, each with several subcategories. Additionally, the website includes a book detail page and a contact page with information on the author, summary, price, and details of the book.

### **1.2 Scope**

This project involves developing a functional and visually appealing website that allows customers to search and purchase books online. The website should be designed to include main categories, subcategories, book detail pages, and contact pages. It is crucial to ensure that the website is responsive and accessible on multiple devices, including desktops and smartphones.

### **1.3 Objectives**

The primary objective of this project is to successfully design and create the website using only HTML and CSS. The website should have a user-friendly design that enables book lovers to browse and purchase books effortlessly. As a new developer, I aim to build my skills and gain practical coding experience while considering the unique characteristics of the website.

## **2. Project Description**

### **2.1 Features**

The website consists of multiple pages, including a homepage, a category page, a book detail page, and a contact page.

#### a. Homepage

- Header: The header includes various animations and effects in the navigation bar, such as hover effects and transitions, to enhance the user experience. The user can access the navigation bar with links to other pages on the website. Additionally, people can use the toggle button on the small screen to access the navigation bar.
- Banner: The BIBILO logo is mounted on a moving banner using video to add performance to the branding advertising effect. Using banners with dynamic effects, rather than static banners, makes the BIBILO website itself more effectively imprinted on the user.
- Footer: It is styled with footers that can be fixed to the bottom of the footer, regardless of the content. Animations such as hover effects and transitions were added, as in the header.

- b. Book Detail Page: This webpage contains a breadcrumb that links the homepage and subcategory names. It includes one large image of the book and three small images, the name of the book, the author, and the price. It also has an "add to cart" button, an "add to wish" button, and a book description at the end of the page.
- c. Category Page: The category page consists of a main category page and a subcategory page.
  - Main Category: There are three categories in total: children, fiction, and nonfiction, and category names are linked to go to the subcategory page. Four books are displayed in each category, all linked to a book detail page.
  - Subcategories: Subcategories have three subcategories, each like the main category. The category name is linked to a book list page that contains all the books. Four books are displayed in each category, all linked to a book detail page.
- d. The Contact Page: This page includes a contact form that enables potential clients to send a message to the web developer. The contact form includes the purpose of the contact, personal information (name, email, phone number), the contact preference (choose user's phone and email), and a weekly newsletter using radio buttons, and additional notes. The submit button at the bottom delivers the contact form and initializes all items through the reset button.

## 2.2 Technical Aspects & Technical Details

- Developed using HTML and CSS:

The website was built using HTML and CSS. HTML sets the structure of a website, including titles, paragraphs, images, links, and other elements. CSS was also used to specify the style of a website that defines color, font, layout, and other visual properties.

- Responsive Web Design:

Responsive web design techniques are used to ensure the website is compatible with different screen sizes and devices. CSS media queries are used to define distinctive styles depending on the screen size. The reactive navigation menu that folds on a small screen helps to access mobile users easily.

- UX/UI Design:

The website uses a clean, modern design with consistent color configurations and typography. It includes various media elements, such as images, videos, and animations. It was first designed in Figma, considering visual elements such as color

and location contours of the website, and then custom CSS was used to style pre-designed UI components according to the visual identity of the website.

- Navigation and Interaction:

The website includes a navigation menu with links to other pages on the website. Navigation menus have hover effects on links and buttons.

### 3. Implementation Details

#### 3.1 Tools & Technologies

- Web Programming language: HTML, CSS
- IDE: Visual Studio Code
- Workspace: GitHub
- UX/UI Design: Figma
- Research engines: Google scholars, w3school

#### 3.2 Key Features

##### a. Homepage

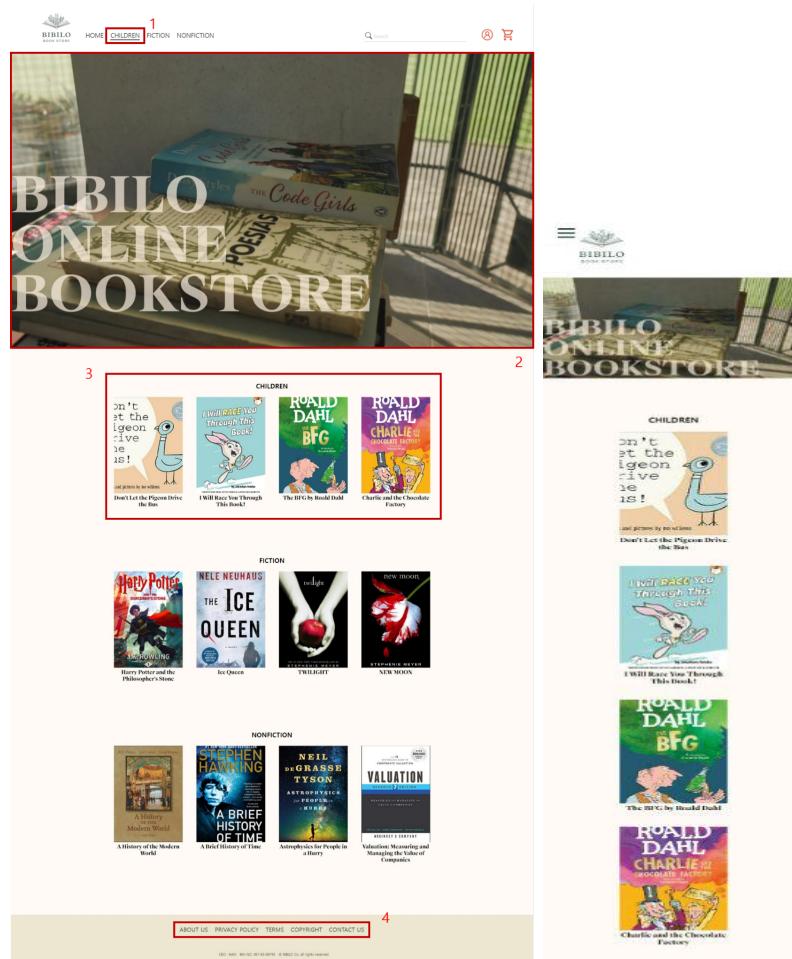


Figure 1: Homepage (Desktop, Mobile)



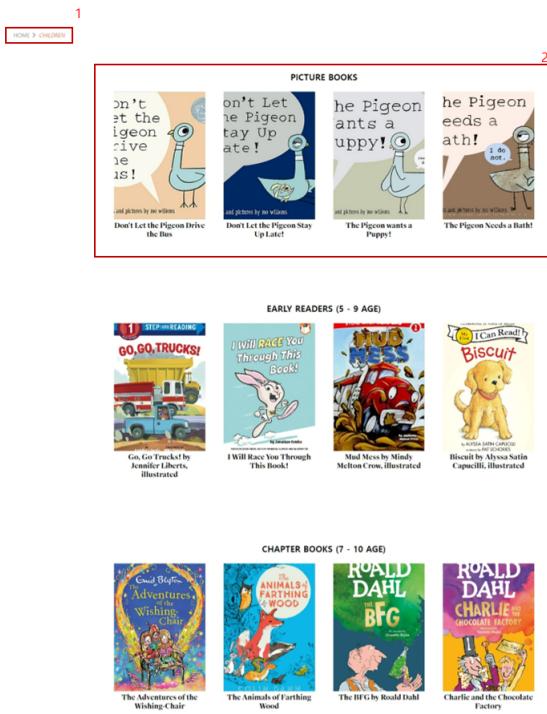
**Figure 2: Header Navigation bar Hover (Desktop, Mobile)**



**Figure 3: Category Hover**

- 1) Header: The user can move to the main categories through the navigation bar, and if the user put a cursor on the category, a green line will appear underneath. Also, the user can click the logo to go to the home screen
- 2) Banner: The video is automatically repeated with a banner using video. Using position:absolute, letters are placed between videos, and a large brand logo brings a branding advertising effect
- 3) Main Category: Four books are displayed and displayed horizontally. Category letters go to the subcategory page and click the book and title to go to the book detail page. Also, if the user put a cursor on the handwriting, it has a lighter color than black
- 4) Footer: It has a navigation bar like a header and allows it to move to subcategories. If you place the cursor, it will be displayed in a lighter color than the letter color.

## b. Category Page



**Figure 4: Sub Category Page (Desktop)**

- 1) Bread crumb: As a subcategory, it provides a link to return to each previous page that the user has navigated to, and shows the user's current location on the website. The current location is indicated in red. When the user touches the cursor, the color is brighter than black line will appear underneath.
- 2) Sub Category: Four books are displayed horizontally, as shown in the main category. Category characters go to subcategories pages and click Books and Title to go to the Book Details page. These categories are displayed in the middle of the screen. Also, if the user put the cursor on the cursive, it has a brighter color than black.

### c. Book list Page



**Figure5: Book List Page (Desktop)**

The sub-category's sub-page lets the user view all the books in the sub-category. These categories are displayed in the middle of the screen.

### d. Book Detail Page

The screenshot shows two book details side-by-side. On the left, 'Harry Potter and the Philosopher's Stone' is displayed with its cover art, title, author, price (VDN 10,000), and a row of smaller book images. Below the main image is a red-bordered box containing a 'BOOK DESCRIPTION' and a summary of the plot. On the right, 'The Adventures of the Wishing-Chair' is shown with its cover art, title, author, price (VDN 10,000), and a row of smaller book images. Both pages feature a search bar, a cart icon, and a wish list icon at the top. The bottom of each page has a 'BUY NOW', 'ADD TO BAG', and 'ADD TO WISH' button.

**Figure5: Book detail page (Desktop, Mobile)**

- 1) Buttons: Press the book with a cart, wishlist, or buyable button to create a shadow around it to see if the user is clicking on the button. The title, it is located in a size similar to the small pictures.
- 2) Description: It represents the plot of the book and is displayed in the middle of the screen.

## e. Contact Us Page

**CONTACT US**

**CONTACT PURPOSE**  
I WANT TO BUY BOOKS

**PERSONAL INFORMATION**

Name  
Email  
Phone

**CONTACT PREFERENCE**

By Phone By Email

**RECEIVE WEEKLY NEWSLETTER**  YES  NO

**NOTE**

**SUBMIT** **RESET**

**CONTACT US**

**CONTACT PURPOSE**  
I WANT TO BUY BOOKS

**PERSONAL INFORMATION**

Name  
Email  
Phone

**CONTACT PREFERENCE**

By Phone By Email

**RECEIVE WEEKLY NEWSLETTER**  YES  NO

**NOTE**

**SUBMIT** **RESET**

**Figure 6: Contact Us Page (Desktop, Mobile)**

- 1) personal information: Users can sign their names, emails, and phone numbers in the box. When the user clicks the box, the letters pop up to show which box they are filling in
- 2) Contact Preferences: You can choose which contacts you prefer, your phone or your email. You can select both phones and emails, and you can select neither. If you select checkbox, the circle moves, and the background color changes darkly.
- 3) a weekly newsletter: Choose whether you want to receive a weekly newsletter. Only one can be selected through the radio, and the yes part is displayed as the default value.

### 3.3 Limitation

- Some CSS code is not clear

Over time, I gradually honed my skills. I initiated the project promptly, anticipating that self-study would take a considerable amount of time. Despite devoting three weeks to the project, I deemed the previous code to be subpar. Unfortunately, due to the impending deadline, we were unable to rectify all the messy code, and redundant sections remained. I persisted in improving the code, but as the deadline drew closer, it became clear that I wouldn't be able to perfect it within the given time limit. Regrettably, I had to leave it as a defect.

- Relative Address

During the process of organizing files into folders, some tags may have been assigned incorrect relative addresses, leading to potential errors on the website. This can occur when individuals mistakenly use improper relative addressing such as "/", "./", or "../". Although they made an effort to correct all the code, some tags may not have been located and thus remained unaltered, resulting in errors.

#### **4. Conclusion**

In conclusion, I believe that this project has achieved its goal by more than 80% because it was started with the goal of improving technology and experiencing it. However, due to time constraints, all problems could not be completely corrected. Attempts have been made to address flaws in CSS code, but there are still some errors on the website. The improvement of individuals is a good step forward, but the inability to completely solve all problems in a limited time is a significant drawback.

Future work will improve individuals' ability to write high-quality CSS code, contributing to future projects at a high level. We need to focus on high completeness and fast work processing. It will be helpful to systematically plan for more thorough testing and quality checks a week before the project's deadline, and to plan the timeline to suit individual competencies. This will minimize the risk of errors and make user-friendly websites more complete.

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