**Intro to Web Dev Final Report**

**Directions:** Follow the directions according to the Touchstone Instructions document. Include your responses for all the sections listed under the Directions section. Remember to review the Touchstone instruction page for entry requirements and grading specifics.

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**Date: July/23/2025**

**Final Program Share Link from the IDE:**[**http://localhost:63342/Book\_Haven\_Bookstore/homepage.html**](http://localhost:63342/Book_Haven_Bookstore/homepage.html)[**https://github.com/Dgoralkin/Sophia\_Introduction\_to\_Web\_Development**](https://github.com/Dgoralkin/Sophia_Introduction_to_Web_Development)

# **Introduction**

**Client name: Book Haven Bookstore**

My client is a local for book enthusiasts, offering a diverse selection of books, magazines, journals, and office supplies to serve book enthusiasts better and those seeking knowledge. The goal is to boost its profile, build a strong literary community, and streamline book discovery and purchasing.

**Color Palette Selection**

*As Book Haven is a business that focuses on a deep-rooted commitment to fostering literary exploration and targeting book lovers, knowledge seekers, and high-quality readers, and revolves around celebrating the written word and supporting intellectual growth, the colors in the themes must be warm and inviting, which would trigger users to calm and lead to thoughtful activity. The warm and deep colors perfectly correlate with the "intellectual growth" and "knowledge seeker" definitions, ensuring that the text is highly visible and easy to read. The colors in the second color palette (Romantic Red, Midnight Manuscript, Regal Quill, etc.) are harmonious and perfectly reflect the description of fostering literary exploration and will work well with the business needs.*

**Logo Selection**

*The selected logo will be the “Book Worm” color (#3E5641). That logo and color selection directly evoke a strong sense of literary and library atmosphere. The dark green shade reminds users of nature, trees, and memories of old books. It focuses on a grammatically appropriate collection of shades to target the relevant user groups.*

**Font Color Selection**

*The Light Blue-Grey ish ( C1CFD6 ) option will be a perfect companion to the selected darker color themes for the Book Haven website, as it provides very high contrast ratios.  
such as* ***5.04:1*** *for the Book Worm -> Vintage Paper, or* ***8.14:1*** *with the**Midnight Manuscript as computed on the* ***WCAG Color Contrast Checker*** *resource (Accessible Web, 2024), which makes the font easy to read, highly accessible for a wide variety of audiences, and visually appealing.*

**Typography Selection**

The typography options for the Book Haven Bookstore website proposed in the second option provide a good blend of sizes and great readability and accessibility to a wide range of audiences. For example, Arial Bold 30px and Arial Bold 25px are highly readable and widely available sans-serif fonts, and are a reliable choice for web content as they are visually appealing, clean, and professional, and should align with the "vibrant literary community" audience requirements.

# **Wireframes**

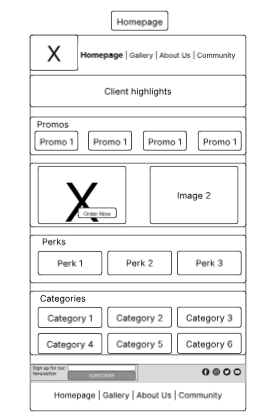
1. **Desktop Wireframes:**

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1. **Mobile Wireframes**

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# **Website Structure and Content**

The website consists of four unique webpages, namely the Homepage, Gallery page, About page, and Community page. Each webpage consists of a header and a footer section, where the header section contains the client logo on the left, followed by the webpage title, and a horizontal navigation bar on the right. The navigation bar contains links to other webpages, while the footer section features a subscribe-to-newsletter option, social media links, and additional links to similar webpages, similar to those in the header section.

**1) Home Page:** [http://localhost:63342/Project/homepage.html /](http://localhost:63342/Project/homepage.html%20/) <https://github.com/Dgoralkin/Sophia_Introduction_to_Web_Development/blob/main/homepage.html>

The home page contains five sections. The first section contains a general overview of the Book Haven Bookstore, e.g., the next two sections display shopping promo offers for the bakery and sample product images. The final two sections provide information about shopping perks for the bookstore and the different categories of items sold in the online store. The footer provides quick navigation links between various site pages, as well as links to external social media platforms for the Haven Bookstore, and a Subscribe to Our Newsletter form.

**2) Gallery Page:** [http://localhost:63342/Project/gallery.html /](http://localhost:63342/Project/gallery.html%20/) <https://github.com/Dgoralkin/Sophia_Introduction_to_Web_Development/blob/main/gallery.html>

The Gallery page displays a table of various items sold in the bakery, along with options to add items to the shopping cart. Each item includes an image, a brief description, and an “Add to Cart” button. The Gallery page also provides an option to view the shopping cart, which displays the list of items currently added to the cart.

**3) About Us Page:** [http://localhost:63342/Project/about.html /](http://localhost:63342/Project/about.html%20/) <https://github.com/Dgoralkin/Sophia_Introduction_to_Web_Development/blob/main/about.html>

The About Us page contains two main sections. The first section displays general information about the bookstore, including a description of the business profile, as well as its business hours and physical address. The second section contains a "Contact Us" form, where users can enter their information and submit feedback, as well as custom order details.

**4) Community Page:** [http://localhost:63342/Project/community.html /](http://localhost:63342/Project/community.html%20/) <https://github.com/Dgoralkin/Sophia_Introduction_to_Web_Development/blob/main/community.html>

The Community page has three sections. The first one provides a customer spotlight with customer testimonials and feedback, while the second section focuses on community involvement and public events. Lastly, the third section provides information about local charities and opportunities for community involvement.

# **Website Design and Styling**

1. **Overall Design:**

The Homepage design serves as the main website design, and the styles for the template are defined in the style.css styling sheet.  
The Homepage displays a 3X3 grid of images arranged in the center of the screen just after the header div that displays the logo for the site, with the name page in the center and the navigation links on the top right of the screen. The page is responsive, adapting to the user’s screen size and compatible with both mobile and desktop devices. The three item images for the shop with us are organized horizontally, each taking one-third of the width of the webpage, while the colors and fonts are defined per user request.

A screenshot of a book store

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The Gallery page pattern is withdrawn from the Homepage and renders a 3X3 gallery of images in the main body section. Each image renders an H2 item name with a short H3 item description below.

The About Us page displays the business hours as a grid that covers the width of the page at the center of the screen. Additionally, the Contact Us form includes input fields for the customer’s name, email address, address, phone number, and feedback/customer order information. There is also a checkbox to confirm user agreement for contacting them over the phone, which appears just before the submit button is clicked.

To provide an accessible experience for users, all colors applied to the website have been tested for color blindness safety using website testing tools and styled according to the user-defined color scheme and font selection to comply with accessibility standards and best practices.

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1. **Accessibility:**

To provide an accessible experience for users, all colors applied to the website have been tested for color blindness safety using website testing tools and styled according to the user-defined color scheme and font selection to comply with accessibility standards and best practices. For example, some areas of the website use the Midnight Manuscript #2E2E4E background color while displaying the Vintage Paper #C1CFD6 color in combination with the Calibri Normal typography option. This option provides a great aspect ratio of 8:1, which indicates excellent contrast and good readability to meet accessibility needs.

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1. **Responsive Web Design:**

To make a website design responsive, I configured the viewport settings using a meta tag within the <head> section of the HTML as follows: <meta name="viewport" content="width=device-width, initial-scale=1.0"/>. This tag ensures that the viewport width matches the width of the user's device, allowing the page layout to adapt appropriately across different screen sizes. This is a key component of responsive web design. The initial-scale value defines the initial zoom level when the page loads—setting it to 1.0 displays the page at its actual size with no zoom applied. Similarly, the Flex display that I defined in my style sheet ensures that my display containers will shrink and expand accordingly to the user's screen device. That functionality was tested by using the Dev Tools in my Chrome browser while testing random pages on various mobile and tablet devices.

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# **Website Functionality**

The website is designed to be a dynamic and interactive website. It has several interactive features and functionalities as follows:

1. **Navigation Bar:**

The website features an interactive navigation bar in both the header and footer sections, which can redirect the user to other pages of the website, such as the Homepage, Gallery, About, and Community pages. The added functionality is also outlined in bold font and underlined style to indicate its location on the website. In addition, for a great user experience, hovering over some images and buttons by using the styling features dims and enlarges the image to provide modern design and focus.

A screenshot of a website

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1. **Subscribe Feature:**

The footer section of each page features a “Subscribe” button that allows customers to input their email address. If the user enters their email and clicks the “Subscribe” button, an alert window appears with the message “Thank you for subscribing.” In addition, the feature validates correct address pattern input to assist users and prevent input errors.

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1. **View Cart Feature:**

The gallery page features an add-to-cart button, which, when clicked, adds the selected item to the shopping cart.

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1. **Contact Us Feature:**

The "About Us" page features a form designed for users to submit their inquiries or custom order requests by inputting their Name, Email address, phone Number, and an optional field for users to include additional details in a larger text area. When a user clicks this button, an alert window will pop up and read: "Consent given ✅, your request submitted!". Similarly, the mechanism will prevent users from submitting empty forms or omitting any of the required details.

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# **Web Data Storage**

1. **Shopping Cart Feature:**

Each time the "Add to Cart" button is clicked on an item in the Gallery page, that item gets stored in the sessionStorage, and a rendered system message shows up on the screen and displays the chosen item name for confirmation.

1. **Contact Us Feature:**

Clicking the “Submit” button on the Contact Us form located on the About Us page creates an object containing the entered details—username, email address, phone number, and feedback or custom order message. This object is then stored in the localStorage while the top section of the page displays the business story, legacy, and its hours of operation.

# **Customization**

The Community Corner page adds meaningful value to the Book Haven website by complementing the Homepage, Gallery, and Contact Us pages. While the Homepage presents the business face, the Gallery displays its products, and the Contact page allows for direct communication, the Community Corner goes a step further by building emotional connections. It features customer stories, promotes a sense of belonging and trust, and showcases the bookstore in local events and community initiatives. This page helps portray the bookstore not just as a place to buy books, but as an active, caring part of the community.

# **Screenshots of Rendered Webpages**

1. **Homepage**

**Homepage:**

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**Subscribe feature and input validation:**

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1. **Gallery Page**

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**A screenshot of a computer

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**Gallery page: / Shopping cart—Add Item:**

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1. **About Us Page**

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A screenshot of a computer

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1. **Contact Us form**

**Contact Us form—input validation:**

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1. **Custom Page**

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# Description of Issues

*While writing and testing my code, I struggled to establish the desired layout setup. I had difficulties defining and aligning all of the divs and setting the content inside each div.  
To solve some of these challenges, I defined the parameters for each div in my style.css file as follows:*

*<!-- Promo Section -->  
<section class="promo">  
 <div class="featured-product">… </div>*

*/\* Style the featured-product div \*/  
.featured-product, .shopping-perks, .product-categories, .newsletter, .footer-links {  
 display: flex;  
 justify-content: center;  
 align-items: center;  
 gap: 20px;  
 padding: 20px;  
 flex-wrap: wrap;   
}*

*Additionally, while setting up the functionality for the Subscribe button in the footer, I attempted to require users to complete the form before submitting their response. Incorrectly setting my if statement in the JavaScript file prevented the desired functionality and threw an error to the console:*

*A screenshot of a computer

AI-generated content may be incorrect.*

Otherwise, *I didn’t encounter any issues with my code or the building process.*