

**RMIT Vietnam**

COSC2430 - Web Programming

## **Static Website**

## **Technical Report**

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# **Contents**

<b>Table of contents</b>	<b>2</b>
--------------------------	----------

## **Introduction**

- Purpose	3
- General Scope	4

## **Project Description**

- Features	4
- Implementation details	5
- List of bugs and knowns problems	13

<b>Conclusion</b>	<b>14</b>
-------------------	-----------

<b>Reference</b>	<b>14</b>
------------------	-----------

## Introduction

“If I don't read at least once a day, I get sores in my mouth.” It's one of the famous wise sayings in my country. It means your tongue can harm people when you aren't reading a book. Similarly, many experts recommend to parents that having a reading habit from as young as they are to develop their thinking skills and perspective. As you can see, reading a book and getting acknowledged are significant to form a personality. However, starting to read can be difficult for some people because they have to spend time to find what to read, and which book is fit for them. This is why I want to make a bookstore website for them to recommend books that I read before, heard of, or loved by most people. In this report, I want to show the purpose, scope, and objectives of this project as features, implementation details, and what I learned since I started this project. And, I added some extra features and elements to this website. Extra features and elements will be expressed as “Extra”.

## Purpose



Logo and slogan of website

The purpose of this website is to motivate people to read a book and improve their knowledge. Our slogan, Take your Engine to develop knowledge!!, name of the website, “Story Engine”, and the gear wheel represent our purpose. I hope this website will be a gear to the customers.

## General Scope

General Scope is building a fully online book store website with user-friendly interfaces and users can approach the introduction of categories like “Non-fiction”, “Fiction”, and “Textbook”. And, users can enter specific categories such as “History”, “Science”, and “Science Fiction”, etc... These interfaces contain rating systems, book detail pages, a Help page, and a brief description of books. I especially hope the Help page makes our website more user-friendly.

## Project Description

I pursued this website to be user-friendly and flexible.

## Features

### 1. User-friendly

comfortable color: After I searched and did some experiment, found that the orange-brown button and lemon background color feels comfortable.

Button transitioning: This function makes people perceive they interact with the website, and It makes the website more attractive. I learned about choosing time to transition and the “transition-timing-function” element behind which I built these features.

Best Seller paragraph in Header: This paragraph will be a book recommendation to users and people can know which one is famous.

Price on the front pages and Rating-stars: People compare books more easily.

Help page: In here, people can comment with feedback or ask for help.

Search box: The search box will reduce user’s effort to find a book they want

Anchor elements and “Buy now” buttons - It allows users to connect detailed book pages smoothly. I also reused transition and the

“transition-timing-function” element in CSS when I built the “Buy now” buttons

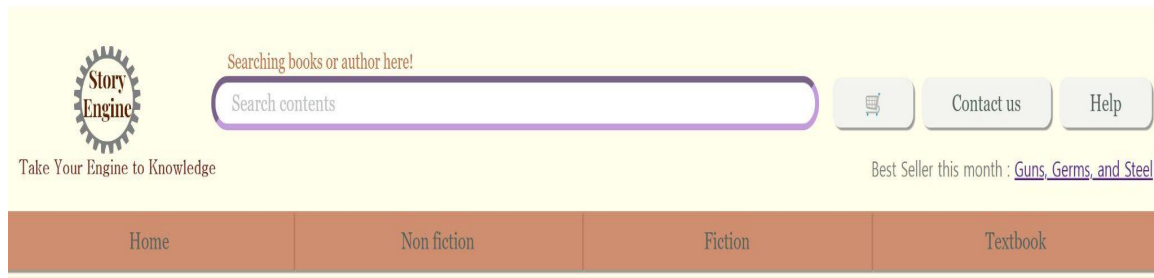
### 2. Flexible

Media query: For mobile uses, like smartphones or tablet computers, I built a media query environment for users to simply enjoy this website. The media query function transforms buttons, text, inputs, and images depending on their

width. When I code this function, I used “grid style” in CSS. This is my first time to learn and utilize this style. It is really helpful to design a website.

## Implementation details

### 1. Main page



### Header

This is a Header section of my website. This section is commonly included on all of the pages on this website except for designs of orange buttons. As you can see, there is an input search box, with many buttons. and the main logo of “Story Engine”. Most of these buttons are used by HTML elements(<a> anchor) to connect other HTML files.

1. Main Logo - It's on the left side. It has a transition function, when you hover the mouse cursor, the logo spins 30 degrees. Users can click this logo and It contains link functions to the main page so users can back to the main page wherever they are. ([https://youtu.be/P-T\\_lz22CTM](https://youtu.be/P-T_lz22CTM))
2. Extra)Search box - This elegant color and structure search box is used for searching contents. To search content, users can use the keyword like book and author name. But, there are some functional issues for JavaScript, this function is not implemented yet.

Buttons on the header section have the same hover functions when they point buttons, it becomes darker so users know what they point and select. (<https://youtu.be/HJL0dDWe8Q8>)

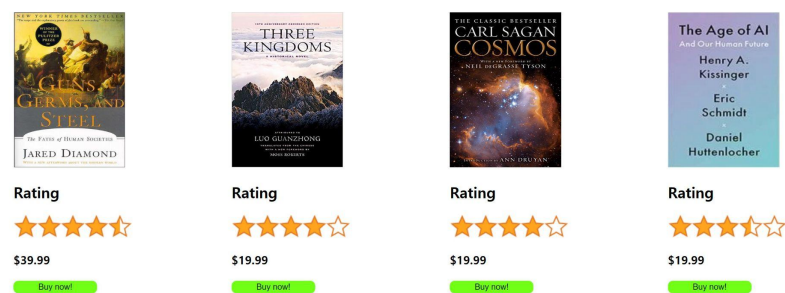
1. Extra)Cart - This button represents the “Cart” emoter, users can enter the cart page that they selected to add to the cart. However, this function and cart page is not built because of functional issues with Java Script.
2. Contact us - It is connected with the “Contact us” page. On this page, users can easily sell or buy books here. I will introduce this page later.
3. Extra)Help - It will take the user to the Help page. As you read in the introduction part, this page will be a window between me and users.
4. Extra)Best Seller this month - This paragraph will introduce the best seller this month and it will be changed monthly so users can see which one is the most popular this month.
5. Orange buttons - These buttons act like what they represent. If a user clicks the Home button, they go to Home, If the Non-fiction button, It leads to the Non-fiction page. However, On this main category page, I provided 2~3 subcategories.



Try Bestseller author this month's lecture!

## **Main - rich media section**

The start of the main section is a video. I provided a Ted youtube video to a user that was performed by “Jared Diamond” who is an author of “Gun, Germs, and Steel”. I can effortlessly insert this video into an HTML file using the iframe and Youtube sharing function.



## Main page- Main Categories

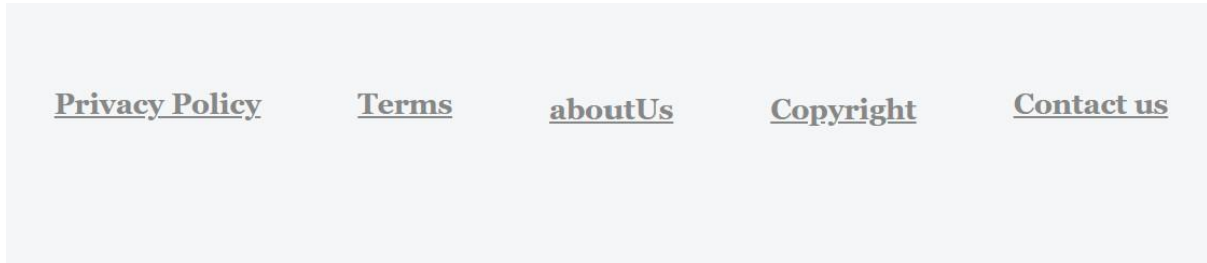
Next to rich media are the main category sections. There are other categories not only in the Non-fiction category but also, Fiction and Textbook categories.

These sections involve 4 parts. Thumbnail image of books, rating stars, (extra)price, and (extra)“Buy now!” button. These sections are formed by flex, flex-direction columns.

Now, we can only see 12 books here, the main page. On the other hand, these books are randomly picked in their categories and there are more than 20 books and detailed pages displayed on this site.

1. Thumbnail image - In here, users can see the name of books and a book cover. Furthermore, the anchor HTML element(<a>) is used on this image. If the user clicks these thumbnails, it leads to the book detail page that can be added to the cart.
2. Extra) Rating stars - These rating stars represent how much this book is preferred by people. This part can be modified using Java Script so users can rate those books. However, right now, I chose these rating stars depending on my preference and other reviewers' opinions on the internet.
3. Price - This paragraph makes users seek book prices easily. Prices for books are approximately the same as the price on the Amazon website.

4. Buy now! buttons - As you expect, these buttons lead to a book detail page so users can buy or add it to the cart easily. Furthermore, It contains hover styling. ([https://youtu.be/SPrM\\_mm9Eh0](https://youtu.be/SPrM_mm9Eh0))



## Footer

### Privacy Policy

Data processing must be fair to the data subject Data must only be processed for specific and legitimate purposes, outlined in your privacy policy  
Don't collect more data than you need  
Make sure the data you collect is accurate  
Don't store personal data longer than needed for the specified purpose  
Process data in a way that ensures security, integrity, and confidentiality  
Be able to demonstrate compliance with these principles.

### Terms

All books will be delivered in 5 days.  
Delivery can be delayed because of the delivery company's issue.  
Personal and delivery information can be collected within one year

About us: [S3847581@rmit.edu.vn](mailto:S3847581@rmit.edu.vn) / Taesung Yoon

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[Contact us](#)

## Informations of footer

This is the last part of the main page. I distinguish this part from different background colors.

This section is also commonly used on other pages. This part shows the privacy policy, terms, About us, copyright, and Contact Us anchor paragraph.

1. Privacy Policy and Terms - Privacy Policy and Terms came from my creative idea if I launch and operate a real book website in the future
2. About us and Copyright- I write who made this site, the university email address, and the LinkedIn address.
3. Contact Us - Same as the Contact Us button on the header section, the user is transferred by clicking this text.

## 2. Main category pages

I mentioned we can connect main category pages by clicking the main category buttons of a header section

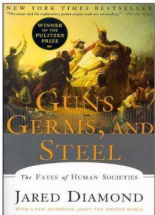
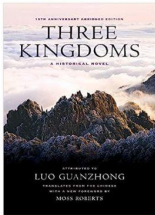
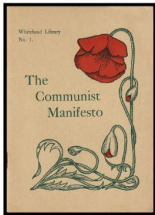




The header of the Main category. It is commonly used on other pages except for the main page..

Header - The header and Footer sections are almost the same except for button designs. This short button design is serendipity. When I am trying to add a media query function and edit CSS code to make this website more flexible and user-friendly, it is made unexpectedly. While this is kind of a bug, I want to leave this design because there is a distinction between the main and this pages headers so it makes this website more casual.

## History

			
<b>Rating</b> ★★★★★	<b>Rating</b> ★★★★★	<b>Rating</b> ★★★★★	<b>Rating</b> ★★★★★
\$39.99	\$19.99	\$29.99	\$44.99
<a href="#">Buy now!</a>	<a href="#">Buy now!</a>	<a href="#">Buy now!</a>	<a href="#">Buy now!</a>

main category pages - subcategories section

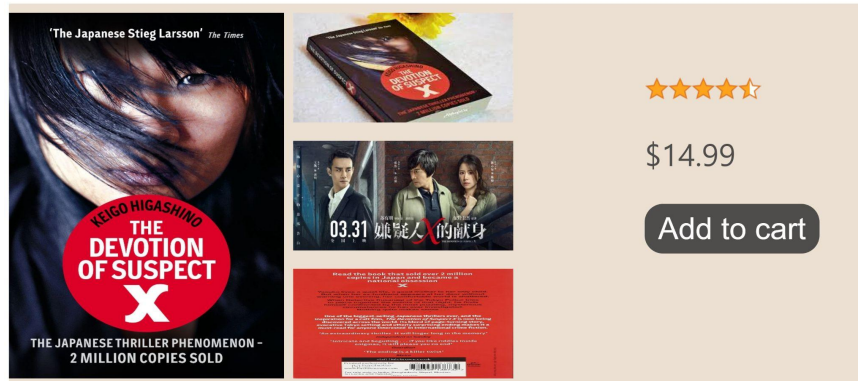
The interface of this section is the same as the main page's main categories sections.

They display the book's thumbnails, rating stars, price, and "Buy now!" button.

But, there's a big difference between the main page and the main category pages.

Main Page's books were displayed randomly for their category. Conversely, in this page, it subdivides books into subcategories like History or Science. There are at least two subcategories here on this website. Also, 4 books are ready to be shown to users.

### 3. Book detail page



## The devotion of suspect X

### Description

The Devotion of Suspect X is a 2005 novel by Keigo Higashino, the third in his Detective Galileo series and is his most acclaimed work thus far. The novel won him numerous awards, including the 134th Naoki Prize, which is a highly regarded award in Japan. The novel also won the 6th Honkaku Mystery Award, which is one of the most prestigious awards in the mystery novels category in Japan. 2006 Honkaku Mystery Best 10 and Kono Mystery ga Sugoi! 2006, annual mystery fiction guide books published in Japan, ranked the novel as the number one. The English translation was nominated for the 2012 Edgar Award for Best Novel and the 2012 Barrv Award for Best First Novel.

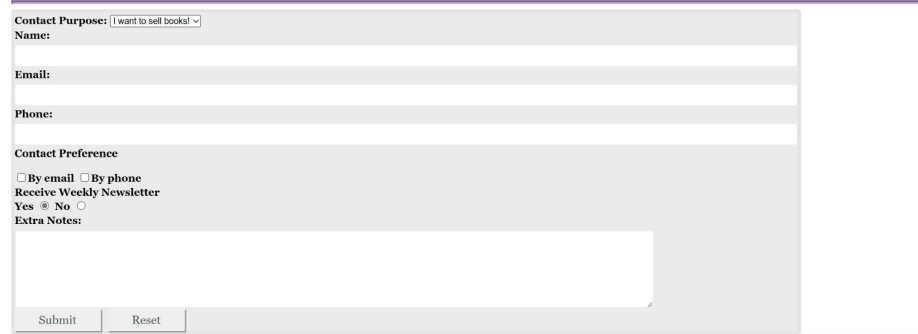
## Main section of book detail page.

It includes 7 elements: A main image of book detail, semi-images of book detail, rating star, price, “Add to cart” button, book name, and brief description. About book detail images, I used CSS two flexbox styles to form this whole structure (flex-row and flex-column). And, on the right side, I used the CSS position.

1. Main image of book detail - This image is the front of the book cover/
2. Semi-images of book detail - These images can be detail pages in the book or poster of a movie or drama. The reason why I didn't include only detailed pages is to introduce users to a chance to see these books on other displays and media. In the example image that I show, it contains the movie poster.
3. Rating Stars, price, Cart button - It has the same meaning and values as the main category page.
4. Book name - This part notices people's names of the book
5. Brief description - In here, it involves brief comments and storylines, what the author wants to talk about, the background of the book, and the prizes the books got. I referred to these descriptions at “Wikipedia.com”, “Amazon.com”, and “bookbrowse.com”.

## 4.Contact Us page

## Contact Us



The screenshot shows a web form titled "Contact Us". At the top, there is a "Contact Purpose:" label followed by a dropdown menu with the selected option "I want to sell books!". Below this are three input fields labeled "Name:", "Email:", and "Phone:". Underneath these is a "Contact Preference" section containing two checkboxes: "By email" (checked) and "By phone" (unchecked). Below the checkboxes is a label "Receive Weekly Newsletter" followed by two radio buttons: "Yes" (checked) and "No" (unchecked). At the bottom of the form is a large text area labeled "Extra Notes:". At the very bottom are two buttons: "Submit" and "Reset".

### Main section of Contact Us page

This page includes Contact Purpose, Personal information, Contact Preference, Weekly Newsletter, and Notes. I was coding this page using input and label elements in HTML.

Contact Purpose - Users can choose the two selections, Buying books, and Selling books.

Name, Email, Phone - In these input elements, users can type their personal information. As I write in the footer terms, this information will be stored for a while.

Contact Preference - It consists of a check box. Users will get payment details for this choice.

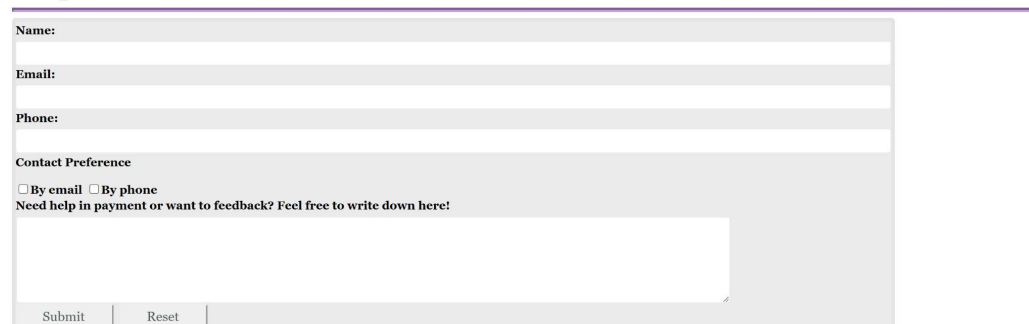
Weekly Newsletter - These are two radio inputs. To check automatically, I added the "checked" element to input what I want.

Extra note - It is built by textarea input. When it was built, it was just a small box. But after styling in CSS to look wider so users can type their claims and book requests.

Submit and Reset button - These buttons have functions that are written. On the other hand, It can't activate yet because of functional issues with Java Script.

## 5. help page

### Help



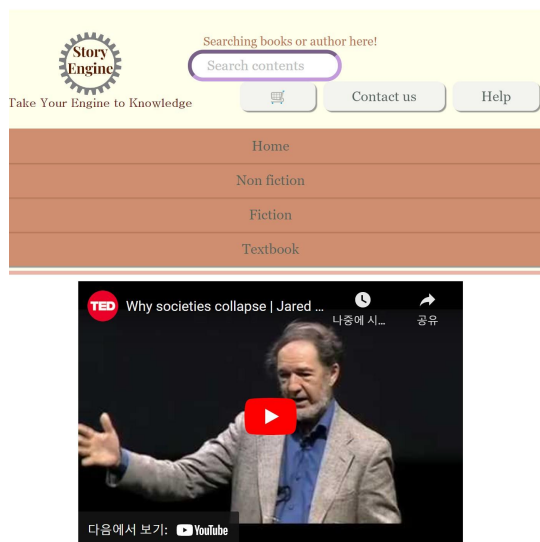
The screenshot shows a web form titled "Help". It has the same layout as the "Contact Us" form, with fields for "Name:", "Email:", and "Phone:". The "Contact Preference" section has "By email" checked and "By phone" unchecked. The "Need help in payment or want to feedback? Feel free to write down here!" label is present above the "Extra Notes:" text area. At the bottom are "Submit" and "Reset" buttons.

The main section of the Help page.

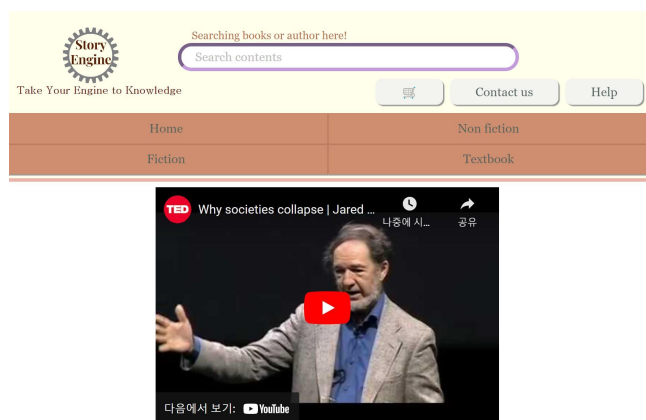
Especially, I added a help page to this website. I thought we needed a communication function between users and administrators. I can comment or chat functions on the book's detail page or main page. But, these functions are not easy to implement in the code in my skill. To solve this, coding help pages is easier than these functions. So, users can easily leave comments about payment or feedback on the website on this page.

## 6. media query functions

I prepared it for mobile users who don't have a laptop or computer. My website will be transformed if the width of the display is under 768px or between 768px and 992px.



768px



768px - 992px

I used a grid box of HTML to form a transition of 768px - 992 px.

Furthermore, rating stars, book detail images, and paragraphs are becoming smaller depending on the width. Most of these components are coded by percentage sizing.

(<https://youtu.be/NG5ETJLTwhQ>)

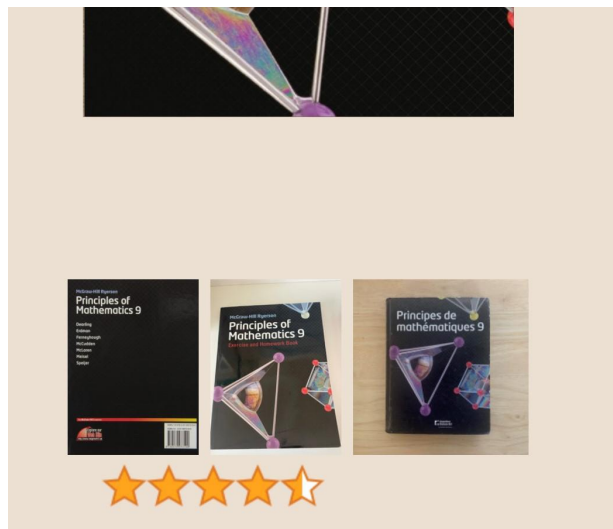
## List of bugs and knowns problems

### 1. CSS error of button design



I mentioned this problem on the front side. I cannot know the reason why some CSS styles are being reset on other pages except the main page.

### 2. Images of detail book page in resizing



Because of the detailed image size, when we use a media query to diminish the display size, the margin between elements looks awkward and it makes CSS styling code complex.

## Conclusion

I have experience copying famous pages but It is my first time to build a website. Forming the first website makes me pressured, some codes are complex and class name rules are unmatched, and several pages are looking awkward. Otherwise, I spent lots of time building it. Also I felt if I can use JavaScript for this website functions like adding to the cart or searching box, this website will be more fashionable and refined. After I finish this work, I want to code well and simple code. Also, I like to reduce time when I build websites and add more active functions. I studied many things from this project experience and got confidence in building the project.

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