Coursework CST1340



Report

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Section 1 - HTML

This section should contain:

• Annotated screenshots of the first page of your website.

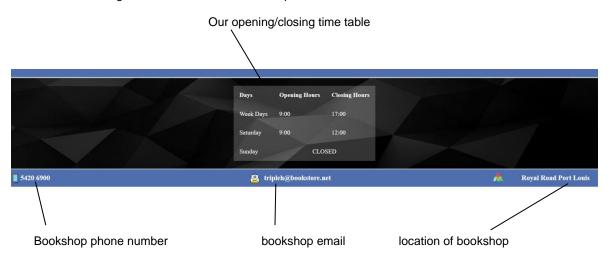




Bookshop description



Our list of genres available at 3H bookshop



```
Bookshop title
                     loading the assets for the website
                                                       linking our css file here
                                                         Styling for the footer
 <!DOCTYPE html>
 <html lang="en">
 ▼ <head>
     <title>3H Bookstore</title>
     <link rel="icon" href="assets/book-staqk.png" type="image/png">
     <link rel="stylesheet" href="styles.css">
    ▼<style>
                    .footer-image-phone {
                     position: relative;
                     bottom: 9px;
                      left: -20px;
                    .footer-image-location {
                    position: relative;
                    bottom: 12px;
                    left: 77%;
                    }
                    .footer-image-email {
                     position: relative;
                     bottom: 10px;
                      left: 37.5%;
                    .image-container {
                    position: relative;
                    text-align: center;
               .image-container img {
                   max-width: 100%:
```

```
height: auto;
            .centered-text {
               position: absolute;
               top: 50%;
               left: 50%;
               transform: translate(-50%, -50%);
               font-size: 96px;
               color: white;
               text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.5);
 </style>
</head>
 <header></header>
▼ <div class="buttons-bar">
   <a class="button" href="Home.html">HOME</a>
   <a class="button" href="Library.xml">CATALOG</a>
   <a class="button" href="#myFooter">ABOUT US</a>
▼ <div class="image-container">
   <img src="assets/material-design-grey-po 1.svg" alt="Library Background">
   <div class="centered-text">3H Bookshop</div>
 </div>
```

Loading background image Button definitions

The body cointainer style

inserting bookshop text description

Inserting list of genres images

```
<div class="blue-bar" style="top:-8px"></div>
V<div class="image-gallery"> flex
V<div class="gallery-item"> (div)
V<div class="blue-bar"></div>
V<div class="container-table" style="top:-2px"> (div)
```

Table for opening hours

use of colspan for closed on sunday

```
√
 ▼
  Days
  Opening Hours
  Closing Hours
 </thead>
 ▼
  Week Days
  9:00
  17:00
 Saturday
  9:00
  12:00
 ▼
  Sunday
  CLOSED
```

Footer data definition including phone number and location

Annotated screenshots of CSS codes used.

```
html, body {
    height: 100%;
    background-color:#E3E3E3;
    overflow-x: hidden;
    margin: 0;
    padding: 0;
}
.container {
    position: relative;
    width: 100%;
    height: calc(100% - 20px);
```

```
background-image: url('VIRAL-LIBRARY-superJumbo.jpg');
  background-repeat: no-repeat;
  background-size: cover;
}
.black-and-white-overlay {
  position: absolute;
  top: 0;
  left: 0;
  width: 100%;
  height: 100%;
  background-color: rgba(0, 0, 0, 0.65);
  mix-blend-mode: luminosity;
}
.content {
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  z-index: 1;
  padding: 20px; -
                                               font and placement for text
  color: #ffffff;
  font-family: Arial, sans-serif;
  text-align: center;
}
```

header {

```
background-color: #4E6EAD;
  height: 5px;
                                    defining the color in the header
  padding: 20px;
  position: relative;
}
.header-text {
  color: #ffffff;
  font-size: 26px;
                    font-weight: bold;
}
footer {
  height:5px;
  padding: 20px;
  background-color: #4E6EAD;
  position: relative;
             left: 0;
  top: 0px;
  width: 100%;
}
.footer-phone-number {
  color: #ffffff;
  font-size: 18px;
  font-weight: bold;
                        defining the position of the phone no
  position: absolute; -
  bottom: 4%;
  left: 25px;
```

```
transform: translateY(-50%);
}
.footer-email {
  color: #ffffff;
  font-size: 18px;
  font-weight: bold;
  position: absolute;
  bottom: 4%;
  left: 42%;
  transform: translateY(-50%);
}
.footer-location {
  color: #ffffff;
  font-size: 18px;
  font-weight: bold;
  position: absolute; — — footer location
  bottom: 4%;
  right: 4%;
  transform: translateY(-50%);
}
.header {
  position: relative;
}
.header-icon-books {
  position: absolute;
  top: 40%;
  right: 20px;
  transform: translateY(-50%);
```

```
width: 50px;
  height: 50px;
}
.buttons-bar {
  background-color: #D9D9D9;
  text-align: center;
  padding: 10px;
}
.button {
  display: inline-block;
  padding: 8px 20px;
  margin: 0 5px;
  background-color: rgba(128, 128, 128, 0);
  color: rgb(0, 0, 0);
                                              button dimensions and position
  text-decoration: none;
  border-radius: 5px;
  font-weight: bold;
}
.button + .button {
 margin-left: 30px;
}
.button:hover {
  background-color: rgba(211, 211, 211, 0);
}
.image-container {
  width: 100%;
```

```
}
.image-container img {
  width: 100%;
  height: auto;
}
.blue-bar {
  background-color: #4E6EAD;
  height: 5px;
  padding: 20px;
  position: relative;
  top: -4px;
}
table {
         border-collapse: collapse;
         overflow: hidden;
                            box-shadow: 0 0 20px rgba(0,0,0,0.1);
         padding: 20px;
}
th,
td {
         padding: 15px;
         background-color: rgba(255, 255, 255, 0.2);
         color: #ffffff;
}
th {
         text-align: left;
```

```
}
.container-table {
  background-image: url('assets/black.jpg');
  background-size: cover;
  background-position: center center;
  background-repeat: no-repeat;
  padding: 20px;
  color: #fff;
  position: relative;
         left: 50%;
  top: -4px;
         transform: translateX(-50%);
  display: flex;
  justify-content: center;
  align-items: center;
  flex-grow: 1;
 }
 .image-gallery {
  display: flex;
  justify-content: space-between;
}
.gallery-item {
  position: relative;
  width: 24%;
                                   defining width for images
}
```

```
.gallery-item img {
    width: 100%;
    height: auto;
}
.gallery-item .caption {
    position: absolute;
    bottom: 0;
    background: rgba(0,0,0,0.5);
    color: white;
    width: 100%;
    padding: 10px;
    text-align: center;
    font-size: 32px;
}
```

Section 2 - XML

Annotated screenshot of the XML file

```
<xml-stylesheet></xml-stylesheet>
  <!DOCTYPE library>

▲ library>

▲ <book>

      <title>Tintin in America</title>
      <author>Hergé</author>
      <release_date>2004-11-04</release_date>
      <genre>Adventure Fiction
      <language>English</language>
    ▲ <image>
        <file_path>assets/tintin.png</file_path>
        <description>Cover of Tintin in America</description>
      </image>
    </book>
   Child element in library
                                    File path of image

▲ <book>

   <title>My Hero Academia Vol 1</title>
   <author>Kohei Horikoshi</author>
   <release_date>2014-07-07</release_date>
   <genre>Adventure Fiction
   <language>English</language>
 ▲ <image>
     <file_path>assets/myhero.png</file_path>

▲ <description>
       Cover of My Hero Academia Vol 1
     </description>
   </image>
 </book>

▲ <book>

    <title>Adventure Time Vol. 1</title>
    <author>Ryan North</author>
    <release_date>2012-06-11</release_date>
    <genre>Adventure Fiction
    <language>English</language>
  ▲ <image>
      <file path>assets/adventuretime.png</file path>
      <description>Cover of Adventure Time Vol. 1</description>
    </image>
```

User defined elements

Xml definition

</book>

```
✓ ⟨book⟩

✓ <title>

       Snow White and the Seven Dwarfs
     </title>
     <author>Wanda Gag</author>
     <release_date>1937-12-21</release_date>
     <genre>Romance Fiction
     <language>English</language>
   ▲ <image>
       <file_path>assets/snowwhite.png</file_path>
    Cover of Snow White and the Seven Dwarfs
       </description>
     </image>
   </book>

▲ <book>

   <title>It</title>
   <author>Stephen King</author>
   <release_date>1986-09-15</release_date>
    <genre>Horror</genre>
   <language>English</language>

✓ <image>
     <file_path>assets/it.png</file_path>
     <description>Cover of It</description>
   </image>
 </book>
</library>
```

Section 3 - Validation

 Annotated screenshot of the DTD file that validates the file created in section 2.

This element carries data

Defines the schema of the data

Section 4 - Transformation

 Annotated screenshots of the XSL/t file that transforms the data in the XML file to an XHTML file.

```
Encoding for xsl
                                                                        linking images
 <?xml version="1.0" encoding="UTF-8"?>
\(\sigma\ss1\):stylesheet \(\frac{\text{version}}{\text{version}}\)="1.0" \(\text{xmlns}\):xsl="\(\frac{\text{http://www.w3.org/1999/XSL/Transform}\)">
      <!-- The output will be HTML -->
      <xsl:output method="html" indent="yes"/>
      <!-- Match the root element of the XML document -->
      <xsl:template match="/">
          <html lang="en">
               <head>
                   <meta charset="UTF-8"/>
                   <title>3H Bookstore</title>
                   <link rel="icon" href="assets/book-stack.png" type="image/png"/>
                   <link rel="stylesheet" href="styles2.css"/>
                   <style>
                        .footer-image-phone {
                            position: relative;
                            bottom: 9px;
                            left: -20px;
                        .footer-image-location {
                            position: relative;
                            bottom: 12px;
                            left: 77%;
                        }
                        .footer-image-email {
                            position: relative;
                            bottom: 10px;
                            left: 37.5%;
                   </style>
               </head>
               <header></header>
```

Style definition

```
<body>
   <div class="container">
        <div class="buttons-bar">
            <a class="button" href="Home.html">HOME</a>
            <a class="button" href="Test.html">CATALOG</a>
            <a class="button" href="#myFooter">ABOUT US</a>
        </div>
        <div class="image-container">
            <img src="assets/library.svg" alt="Library Background"/>
        </div>
        <!--
        <div class="search-bar">
            <input type="text" placeholder="Search..."/>
        </div>
        -->
        <div class="blue-bar"></div>
        <div class="black-bar"></div>
        <div class="grey-bar">
            <div class="white-rectangle-small">
                <h1>BOOK COVER</h1>
            <div class="white-rectangle-big">
                <h1>BOOK INFO</h1>
            </div>
        </div>
```

Second page info and style

Calling the library selecting based on position

```
<div class="big-blue-rectangle">
       <xsl:for-each select="library/book">
            <!-- Calculate the top position based on the current position() -->
            <xsl:variable name="topPosition" select="(position() - 1) * 550"/>
            <div class="white-rectangle-cover" style="top: {$topPosition}px;">
                <img src="{image/file_path}" alt="{image/description}"/>
            </div>
            <div class="white-rectangle-details" style="top: {$topPosition}px;">
                <h2 style="text-align: center;">
                    <xsl:value-of select="title"/>
                <br/>
                <strong>Author:</strong> <xsl:value-of select="author"/>
                <strong>Release Date:</strong> <xsl:value-of select="release_date"/>
                <strong>Genre:</strong> <xsl:value-of select="genre"/>
                <strong>Language:</strong> <xsl:value-of select="language"/>
                </h2>
             </div>
       </xsl:for-each>
   </div>
   <div class="grey-bar"></div>
   <div class="black-bar"></div>
</div>
```

Inputing data in the white rectangle

Loading footer text and images

Variables declaration

Selecting image covers

```
<!-- Create the book cover and info elements -->
                                   <div class="white-rectangle-cover">
                                                      <img src="{$coverImagePath}" alt="{$coverDescription}"/>
                                   <div class="white-rectangle-details">
                                                     >
                                                                      <h2 style="text-align: center;">
                                                                                        <xsl:value-of select="title"/>
                                                                      <br/>
                                                                      <strong>Author:</strong> <xsl:value-of select="author"/>
                                                                      <strong>Release Date:</strong> <xsl:value-of select="release_date"/>
                                                                      <strong>Genre:</strong> <xsl:value-of select="genre"/>
                                                                      <strong>Language:</strong> <xsl:value-of select="language"/>
                                                                       </h2>
                                                    </div>
                                   <br/>

                 </xsl:template>
</xsl:stylesheet>
```

Styling the data into the description white rectangle box

Validator

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change Showing results for styles2.css Checker Input Show source outline image report Options... Check by file upload Choose File No file chosen Uploaded files with .xhtml or .xht extensions are parsed using the XML parser. Check Document checking completed. No errors or warnings to show. Total execution time 5 milliseconds.