



CSC-318

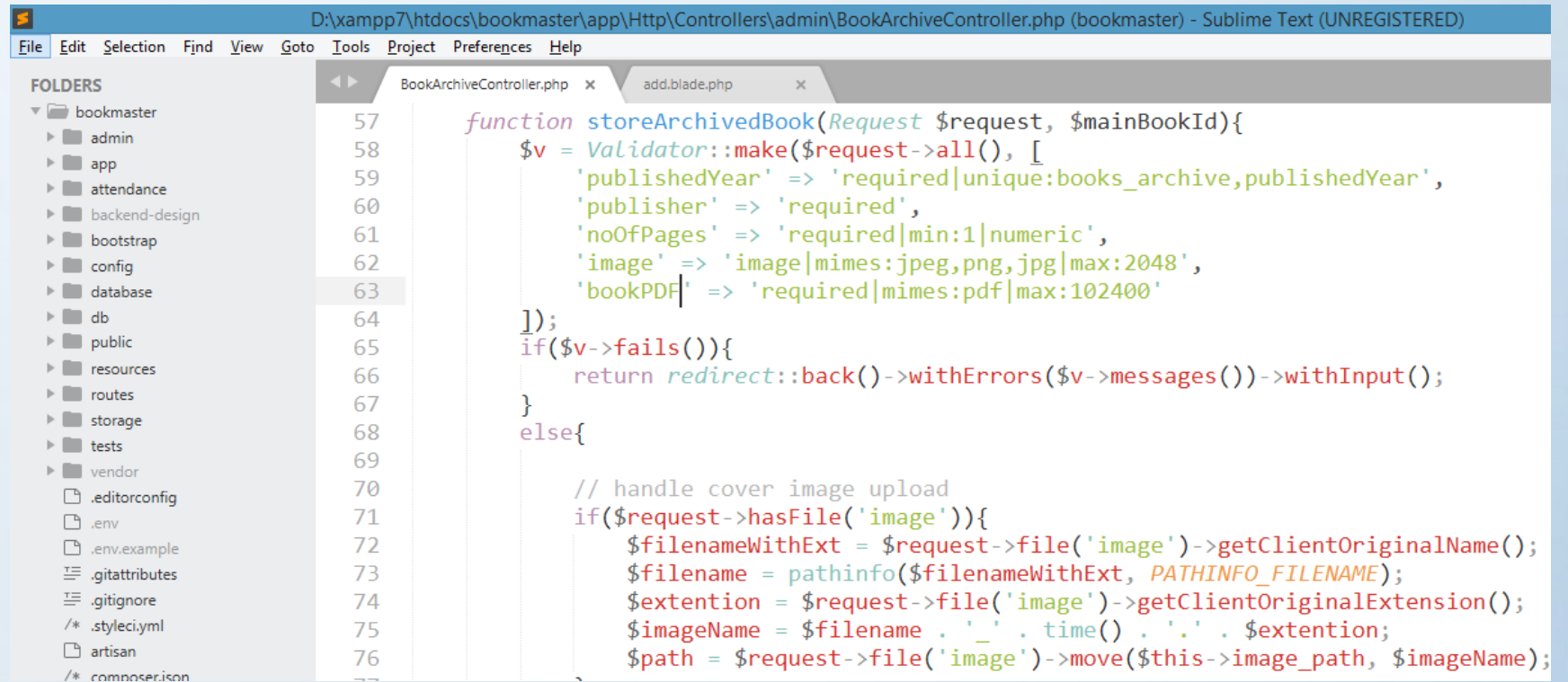
Web Technology

(BSc CSIT, TU)

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Code Editor

- Notepad++
- Recommended Editor : Sublime Text 3 (<https://www.sublimetext.com/3>)



```
D:\xampp7\htdocs\bookmaster\app\Http\Controllers\admin\BookArchiveController.php (bookmaster) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

FOLDERS
▼ bookmaster
  ► admin
  ► app
  ► attendance
  ► backend-design
  ► bootstrap
  ► config
  ► database
  ► db
  ► public
  ► resources
  ► routes
  ► storage
  ► tests
  ► vendor
  .editorconfig
  .env
  .env.example
  .gitattributes
  .gitignore
  /*.styleci.yml
  artisan
  /*composer.json

57 function storeArchivedBook(Request $request, $mainBookId){
58     $v = Validator::make($request->all(), [
59         'publishedYear' => 'required|unique:books_archive,publishedYear',
60         'publisher' => 'required',
61         'noOfPages' => 'required|min:1|numeric',
62         'image' => 'image|mimes:jpeg,png,jpg|max:2048',
63         'bookPDF' => 'required|mimes:pdf|max:102400'
64     ]);
65     if($v->fails()){
66         return redirect::back()->withErrors($v->messages())->withInput();
67     }
68     else{
69         // handle cover image upload
70         if($request->hasFile('image')){
71             $filenameWithExt = $request->file('image')->getClientOriginalName();
72             $filename = pathinfo($filenameWithExt, PATHINFO_FILENAME);
73             $extention = $request->file('image')->getClientOriginalExtension();
74             $imageName = $filename . '_' . time() . '.' . $extention;
75             $path = $request->file('image')->move($this->image_path, $imageName);
76         }
```

Unit 2 : HTML and CSS

- HTML is the standard markup language for Web pages.
- HTML stands for Hyper Text Markup Language
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
- Browsers do not display the HTML tags, but use them to render the content of the page
- With HTML you can create your own Website.
- HTML is easy to learn - You will enjoy it!

HTML Basics

- The `<!DOCTYPE html>` declaration defines this document to be HTML5
- The `<html>` element is the root element of an HTML page
- The `<head>` element contains meta information about the document
- The `<title>` element specifies a title for the document
- The `<body>` element contains the visible page content
- The `<h1>` element defines a large heading
- The `<p>` element defines a paragraph

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>This is a Heading</h1>
    <p>This is a paragraph.</p>
  </body>
</html>
```

This is a Heading

This is a paragraph.

HTML Versions

Version	Year
HTML	1991
HTML 2.0	1995
HTML 3.2	1997
HTML 4.01	1999
XHTML	2000
HTML5	2014

HTML Page Structure

```
<html>
```

```
<head>
```

```
<title>Page title</title>
```

```
</head>
```

```
<body>
```

```
<h1>This is a heading</h1>
```

```
<p>This is a paragraph.</p>
```

```
<p>This is another paragraph.</p>
```

```
</body>
```

```
</html>
```

HTML Headings

- HTML headings are defined with the <h1> to <h6> tags
- <h1> defines the most important heading. <h6> defines the least important heading

```
<!DOCTYPE html>
<html>
  <body>
    <h1>This is heading 1</h1>
    <h2>This is heading 2</h2>
    <h3>This is heading 3</h3>
    <h4>This is heading 4</h4>
    <h5>This is heading 5</h5>
    <h6>This is heading 6</h6>
  </body>
</html>
```

This is heading 1

This is heading 2

This is heading 3

This is heading 4

This is heading 5

This is heading 6

HTML Paragraphs

- HTML paragraphs are defined with the `<p>` tag:

```
<!DOCTYPE html>
<html>
<body>

    <p>This is a paragraph.</p>
    <p>This is another paragraph.</p>

</body>
</html>
```

This is a paragraph.

This is another paragraph.

HTML Links

- HTML links are defined with the <a> tag:

```
<!DOCTYPE html>
<html>
  <body>

    <h2>HTML Links</h2>
    <p>HTML links are defined with the a tag:</p>

    <a href="https://www.w3schools.com">This is a link</a>

  </body>
</html>
```

HTML Links

HTML links are defined with the a tag:

[This is a link](https://www.w3schools.com)

HTML Images

- HTML images are defined with the tag
- The source file (src), alternative text (alt), width, and height are provided as attributes:

```
<!DOCTYPE html>
<html>
  <body>

    <h2>HTML Images</h2>
    <p>HTML images are defined with the img tag:</p>

  </body>
</html>
```

HTML Images

HTML images are defined with the img tag:



HTML Buttons

```
<!DOCTYPE html>
<html>
  <body>

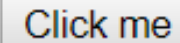
    <h2>HTML Buttons</h2>
    <p>HTML buttons are defined with the button tag:</p>

    <button>Click me</button>

  </body>
</html>
```

HTML Buttons

HTML buttons are defined with the button tag:

A rectangular button with a light gray background and a thin gray border. The text "Click me" is centered on the button in a dark gray, sans-serif font.

HTML Lists

```
<!DOCTYPE html>
<html>
  <body>
    <h2>An Unordered HTML List</h2>
    <ul>
      <li>Coffee</li>
      <li>Tea</li>
      <li>Milk</li>
    </ul>

    <h2>An Ordered HTML List</h2>
    <ol>
      <li>Coffee</li>
      <li>Tea</li>
      <li>Milk</li>
    </ol>
  </body>
</html>
```

An Unordered HTML List

- Coffee
- Tea
- Milk

An Ordered HTML List

1. Coffee
2. Tea
3. Milk

HTML Horizontal Line (<hr>)

- used to draw a horizontal line or separate contents

```
<!DOCTYPE html>
<html>
<body>

<h1>HTML</h1>
<p>HTML is a language for describing web pages.</p>

<hr>

<h1>CSS</h1>
<p>CSS defines how to display HTML elements.</p>

</body>
</html>
```

HTML

HTML is a language for describing web pages.

CSS

CSS defines how to display HTML elements.

HTML Line Break (
)

- used to break line

```
<!DOCTYPE html>
<html>
<body>

<p>
To break lines<br>in a text,<br>use the br element.
</p>

</body>
</html>
```

To break lines
in a text,
use the br element.

HTML Attributes

- All HTML elements can have attributes
- Attributes provide additional information about an element
- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like: `name="value"`

HTML Attributes : href

- HTML links are defined with the `<a>` tag
- The link address is specified in the href attribute:
- `This is a link`

HTML Attributes : src

- HTML images are defined with the tag.
- The filename of the image source is specified in the src attribute:
-

```
<!DOCTYPE html>
<html>
  <body>

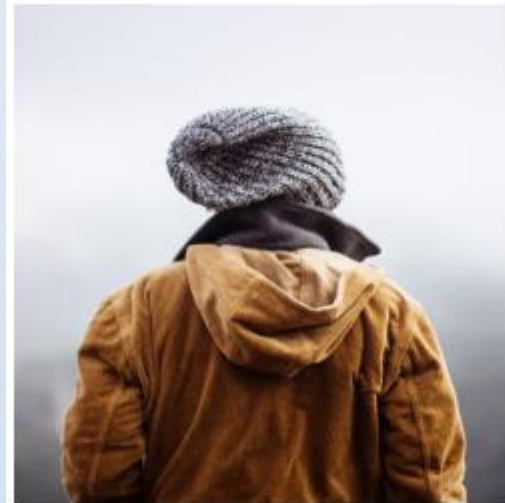
    <h2>The src Attribute</h2>
    <p>HTML images are defined with the img tag:</p>

  </body>
</html>
```

The src Attribute

HTML images are defined with the img tag:



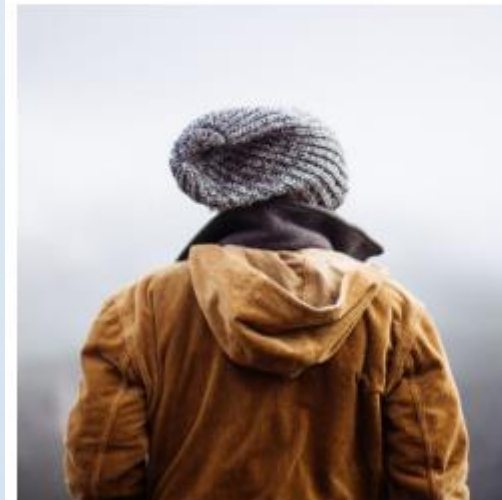
HTML Attributes : alt

- The alt attribute specifies an alternative text to be used, if an image cannot be displayed
- ``

```
<!DOCTYPE html>
<html>
<body>
  <h2>The alt Attribute</h2>
  <p>
    The alt attribute should reflect the image
    content
  </p>
  
</body>
</html>
```

The alt Attribute

The alt attribute should reflect the image content



HTML Attributes : alt

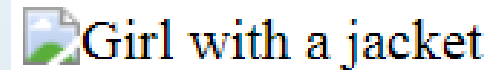
- See what happens if we try to display an image that does not exist
- ``

```
<!DOCTYPE html>
<html>
<body>

  <p>
    If we try to display an image that does not
    exist, the value of the alt attribute will
    be displayed instead.
  </p>

</body>
</html>
```



If we try to display an image that does not exist, the value of the alt attribute will be displayed instead.

HTML Formatting Elements

- used for formatting text:

`` - Bold text

`` - Important text

`<i>` - Italic text

`` - Emphasized text

`<mark>` - Marked text

`<small>` - Small text

`` - Deleted text

`<ins>` - Inserted text

`<sub>` - Subscript text

`<sup>` - Superscript text

HTML Formatting : and

- used to make bold without and with extra semantic importance

```
<!DOCTYPE html>
<html>
<body>

  <p>This text is normal.</p>
  <p><b>This text is bold.</b></p>
  <p><strong>This text is bold.</strong></p>

</body>
</html>
```

This text is normal.

This text is bold.

This text is strong.

HTML Formatting : <i> and

- used to define italic text without and with extra semantic importance

```
<!DOCTYPE html>
<html>
<body>

  <p>This text is normal.</p>
  <p><i>This text is italic.</i></p>
  <p><em>This text is emphasized.</em></p>

</body>
</html>
```

This text is normal.

This text is italic.

This text is emphasized.

HTML Formatting : <small>

- The HTML <small> element defines smaller text:

```
<!DOCTYPE html>
<html>
<body>

    <h2>
        HTML <small>Small</small>
        Formatting
    </h2>

</body>
</html>
```

HTML Small Formatting

HTML Formatting : <mark>

- The HTML <mark> element defines marked/highlighted text:

```
<!DOCTYPE html>
<html>
<body>

<h2>HTML <mark>Marked</mark> Formatting</h2>

</body>
</html>
```

HTML Marked Formatting

HTML Formatting :

- The HTML element defines deleted/removed text.

```
<!DOCTYPE html>
<html>
<body>

<p>The del element represents deleted (removed) text.</p>

<p>My favorite color is <del>blue</del> red.</p>

</body>
</html>
```

The del element represents deleted (removed) text.

My favorite color is ~~blue~~ red.

HTML Formatting : <ins>

- The HTML <ins> element defines inserted/added text.

```
<!DOCTYPE html>
<html>
<body>

<p>The ins element represent inserted (added) text.</p>

<p>My favorite <ins>color</ins> is red.</p>

</body>
</html>
```

The ins element represent inserted (added) text.

My favorite color is red.

HTML Formatting : <sub>

- The HTML <sub> element defines subscripted text.

```
<!DOCTYPE html>
<html>
<body>

<p>This is <sub>subscripted</sub> text.</p>

</body>
</html>
```

This is _{subscripted} text.

HTML Formatting : <sup>

- The HTML <sup> element defines superscripted text.

```
<!DOCTYPE html>
<html>
<body>

<p>This is <sup>superscripted</sup> text.</p>

</body>
</html>
```

This is ^{superscripted} text.

HTML Comments

- Comment tags are used to insert comments in the HTML source code.
- `<!-- Write your comments here -->`
- **Note:** Comments are not displayed by the browser, but they can help document your HTML source code

```
<!DOCTYPE html>
<html>
<body>

    <!-- This is a comment -->
    <p>This is a paragraph.</p>
    <!-- Comments are not displayed
    in the browser -->

</body>
</html>
```

This is a paragraph.

Styling HTML with CSS

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on browser
- CSS saves a lot of work
- It can control the layout of multiple web pages all at once
- CSS can be added to HTML elements in 3 ways
 - Inline - by using the style attribute in HTML elements
 - Internal - by using a `<style>` element in the `<head>` section
 - External - by using an external CSS file
- The most common way to add CSS, is to keep the styles in separate CSS files
- However, here we will use inline and internal styling, because this is easier to demonstrate, and easier for you to try it yourself

Inline CSS

- An inline CSS is used to apply a unique style to a single HTML element
- An inline CSS uses the style attribute of an HTML element
- Disadvantage : this type of CSS can not be reused

```
<!DOCTYPE html>
<html>
  <body>

    <h1 style="color:blue;">
      This is a Blue Heading
    </h1>

  </body>
</html>
```

This is a Blue Heading

Internal CSS

- An internal CSS is used to define a style for a single HTML page
- An internal CSS is defined in the <head> section of an HTML page, within a <style> element
- Disadvantage : this type of CSS can be reused in a single page only

```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body{background-color: powderblue;}
      h1{color: blue;}
      p{color: red;}
    </style>
  </head>
  <body>
    <h1>This is a heading</h1>
    <p>This is a paragraph.</p>
  </body>
</html>
```

This is a heading

This is a paragraph.

External CSS

- An external style sheet is used to define the style for many HTML pages
- With an external style sheet, you can change the look of an entire web site, by changing one file!
- To use an external style sheet, add a link to it in the <head> section of the HTML page:

```
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet" href="styles.css">
  </head>
  <body>

    <h1>This is a heading</h1>
    <p>This is a paragraph.</p>

  </body>
</html>
```

```
body {
  background-color: powderblue;
}
h1 {
  color: blue;
}
p {
  color: red;
}
```

This is a heading

This is a paragraph.