

Lab 04: Implementing CSS for JavaJam Coffee House website Using Bootstrap

In this exercise, you have to do the following tasks:

Task 1: Create a folder

Create a folder on your hard drive or portable storage device (USB or SD card) called “javajam4” to contain your JavaJam website files. Copy **all** the files from your Lab 3’s folder (javajam2 or javajam3) into the javajam4 folder.

Task 2: Configure the CSS of your JavaJam Coffee House website using Bootstrap Components

1. Launch a text editor, and open the index.html file. You will modify this file to apply styles from the Bootstrap external style sheet and JavaScript as follows:
 - a) Remove the <link> for javajam.css external style sheet file, include meta tags and Bootstrap CDN link (hosted online) using the <link> tag.

You can use either Bootstrap version 4.6 or version 5.0 in this lab.

Reference: <https://getbootstrap.com/docs/4.6/getting-started/introduction/>

```
<head>
<title>JavaJam Coffee House</title>

<!-- Required meta tags -->
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1, shrink-to-fit=no">

<!-- Bootstrap CSS -->
  <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/css/bootstra
p.min.css" integrity="sha384-
B0vP5xmATw1+K9KRQjQERJvTumQW0nPEzvf6L/Z6nronJ3oU0FUFpCjEUQouq2+1"
crossorigin="anonymous">

</head>
```

- b) To use Bootstrap’s compiled JavaScript, include jQuery and Popper.js CDN links before it. Add all the jQuery, Popper.js and Bootstrap JS’s CDN links at the end of <body> </body> division:

```
<body>

<!-- Include every Bootstrap JavaScript plugin -->

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.0/dist/js/bootstrap.
bundle.min.js" integrity="sha384-
Piv4xVNRyMGpqkS2by6br4gNJ7DXjqk09RmUpJ8jgGtD7zP9yug3goQfGII0yAns"
crossorigin="anonymous"></script>

</body>
```

- c) Configure the layout of the page **body** area using the Bootstrap's basic layout element, **container** to replace the `<div id="wrapper">` with Bootstrap's layout class named `container`.

```
<body>
<div class="container">

</div> <!--end of body container →
</body>
```

Reference: <https://getbootstrap.com/docs/4.6/layout/overview/#containers>

- d) Configure the page footer area using Bootstrap **container**. Add a **horizontal line** before the footer information. Explore the **Bootstrap Text utilities** to use the Bootstrap CSS classes **for italicize text** and **center aligned text** on all viewport sizes in the `<footer>` tag.

```
<hr>
<footer class="container text-center font-italic">
<p> Copyright &copy; 2021 JavaJam Coffee House
<a href="mailto:javajam@gmail.com">javajam@gmail.com</a> </p>
</footer>
```

Reference: <https://getbootstrap.com/docs/4.4/utilities/text/#font-weight-and-italics>

2. Explore the Bootstrap CSS and Components. Use suitable styles on index.html. Figure 1 shows a new home page (index.html) after using bootstrap css styles.

Hints: You may consider modifying your index.html using Bootstrap CSS and components such as navbar, jumbotron, forms, buttons, containers. For example, you may modify your navigation menu (<nav></nav>) using the Bootstrap navbar (<https://getbootstrap.com/docs/4.6/components/navbar/>) and modify your main content using jumbotron (<https://getbootstrap.com/docs/4.6/components/jumbotron/>).

3. Save the index.html file, and test it in a browser.
4. Repeat this to all html files.

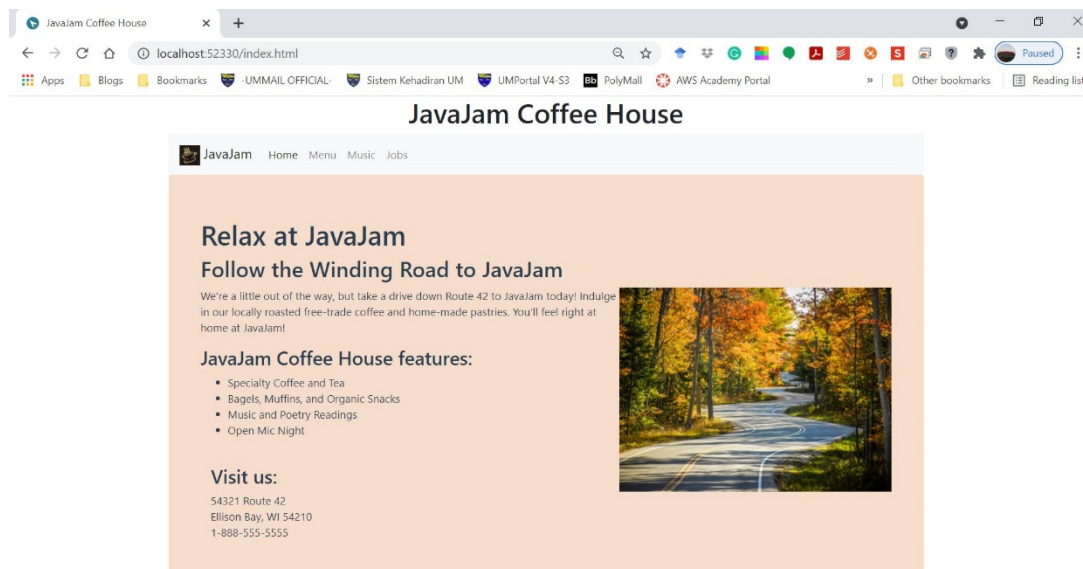


Figure 1 new JavaJam index.html after using Bootstrap CSS (part 1)

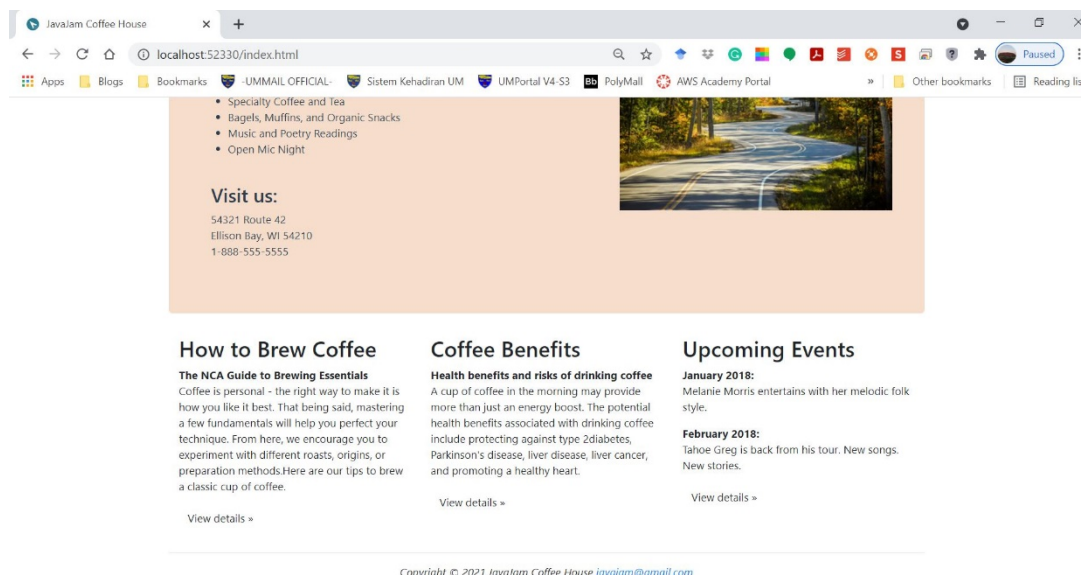


Figure 2 new JavaJam index.html after using Bootstrap CSS (part 2)

Task 3: The Menu, Music and Jobs

1. Explore the Bootstrap CSS **Layout, Components, Utilities and Examples**. Use your creativity to apply suitable styles on the menu.html, music.html and jobs.html.

Reference links:

- Bootstrap Layout: <https://getbootstrap.com/docs/4.6/layout/overview/>
- Bootstrap Components: <https://getbootstrap.com/docs/4.666/components/>
 - Forms: <https://getbootstrap.com/docs/4.6/components/forms/>
 - Input group: <https://getbootstrap.com/docs/4.6/components/input-group/>
 - Card: <https://getbootstrap.com/docs/4.6/components/card/>
 - Alerts: <https://getbootstrap.com/docs/4.6/components/alerts/>
 - Jumbotron: <https://getbootstrap.com/docs/4.6/components/jumbotron/>
- Bootstrap Utilities: <https://getbootstrap.com/docs/4.6/utilities/>
 - <https://getbootstrap.com/docs/4.6/utilities/text/>
- Bootstrap Examples: <https://getbootstrap.com/docs/4.6/examples/>

2. Save the html files after implementing Bootstrap CSS styles, and test it in a browser.