Library Documentation

Staples High School FBLA - Coding and Programming

Table of Contents

CSS Style Sheets

Bootstrap

Source: https://getbootstrap.com/

Description: Bootstrap is an open source toolkit for developing with HTML, CSS, and JS.

Usage: Imported the CSS style sheet using free API created by StackPath

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

    <!-- Bootstrap CSS API Import -->
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstra
p.min.css"
integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9
MuhOf23Q9Ifjh" crossorigin="anonymous">

    <title>Dashboard</title>
  </head>
```

Bootstrap Toggle

Source: https://www.bootstraptoggle.com/

Description: Bootstrap Toggle is a highly flexible Bootstrap plugin that converts checkboxes into toggles.

Usage: Imported CSS style sheet using free API created by Min Hur from the The New York Times Company

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

```
    <!-- Bootstrap Toggle API Import -->
    <link
href="https://gitcdn.github.io/bootstrap-toggle/2.2.2/css/bootstrap-t
oggle.min.css" rel="stylesheet">

    <title>Dashboard</title>
  </head>
```

Bootstrap Datepicker

Source: https://bootstrap-datepicker.readthedocs.io/en/latest/
Description: Bootstrap-datepicker provides a flexible datepicker widget in the Bootstrap style.
Usage: Imported CSS style sheet using free API created by eternicode

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

    <!-- Bootstrap Datepicker API Import -->
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.4
.1/css/bootstrap-datepicker3.css"/>

    <title>Dashboard</title>
  </head>
```

JS Libraries

Firebase JS Plugins

Core Firebase SDK
Source: https://firebase.google.com/
Description: Firebase is a mobile and web application development platform hosted by Google
Usage: Connected Firebase to project using free API provided by Google

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

    <!-- Firebase SDK API Import -->
    <script defer src="/__/firebase/6.1.1/firebase-app.js"></script>

    <title>Dashboard</title>
  </head>
```

Firebase Authentication

Source: https://firebase.google.com/

Description: Firebase Authentication provides backend services, SDKs, and UI libraries to authenticate users

Usage: Connected Firebase to project using free API provided by Google

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

    <!-- Firebase Authentication API Import -->
    <script defer src="/__/firebase/6.1.1/firebase-auth.js"></script>

    <title>Dashboard</title>
  </head>
```

Firebase Realtime Database

Source: https://firebase.google.com/

Description: The Firebase Realtime Database is a cloud-hosted NoSQL database that lets you store and sync data between users in real time.

Usage: Connected Firebase to project using free API provided by Google

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

    <!-- Firebase Database API Import -->
    <script defer
src="/__/firebase/6.1.1/firebase-database.js"></script>

    <title>Dashboard</title>
  </head>
```

Initialize Firebase

Source: https://firebase.google.com/
Description: Scripts to initialize Firebase
Usage: Connected Firebase to project using free API provided by Google

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

    <!-- initialize the SDK after all desired features are loaded -->
    <script defer src="/__/firebase/init.js"></script>

    <title>Dashboard</title>
 </head>
```

All together

The Firebase SDK must be listed **first** because all of the other firebase scripts require it
Firebase Authentication and Firebase Database should be listed second
The scripts to initialize Firebase must be listed **last** because it only initializes all of the desired firebase features that were listed before.

NOTE: Scripts marked with defer will load while the DOM is building (they are non blocking) but they will not execute until the DOM is ready; yet they will still execute before the DOMContentLoaded event

```html
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
 initial-scale=1, shrink-to-fit=no">
     <!-- Firebase Authentication API Import -->
    <script defer src="/__/firebase/6.1.1/firebase-auth.js"></script>

     <!-- Firebase Authentication API Import -->
    <script defer src="/__/firebase/6.1.1/firebase-auth.js"></script>

     <!-- Firebase Database API Import -->
    <script defer
 src="/__/firebase/6.1.1/firebase-database.js"></script>

     <!-- initialize the SDK after all desired features are loaded -->
    <script defer src="/__/firebase/init.js"></script>

    <title>Dashboard</title>
  </head>
```

Bootstrap JS Libraries

jQuery
Source: https://jquery.com/
Description: jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler
Usage: Imported slim build of jQuery using free API provided by jQuery

```html
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,
```

```
initial-scale=1, shrink-to-fit=no">

    <!--jQuery Slim Build API Import-->
    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
integrity="sha384-J6qa4849blE2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0ww
j1yYfoRSJoZ+n" crossorigin="anonymous"></script>

    <title>Dashboard</title>
  </head>
```

Popper.js

Source: https://popper.js.org/

Description: Reliable and extensible positioning engine to ensure all your popper elements are positioned in the right place.

Usage: Imported Popper.js using free API provided by MIT

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

    <!--Popper.js API Import-->
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.mi
n.js"
integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3Uks
dQRVvoxMfooAo" crossorigin="anonymous"></script>

    <title>Dashboard</title>
  </head>
```

Base Bootstrap JavaScript plugin

Source: https://getbootstrap.com/

Description: Bootstrap is an open source toolkit for developing with HTML, CSS, and JS.

Usage: Imported Bootstrap JavaScript plugin using free API provided by StackPath

```
<html lang="en">
```

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

    <!--Bootstrap JS API Import-->
  <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.
min.js"
integrity="sha384-wfSDF2E50Y2D1uUdj0O3uMBJnjuUD4Ih7YwaYd1iqfktj0Uod8G
CExl3Og8ifwB6" crossorigin="anonymous"></script>

    <title>Dashboard</title>
  </head>
```

Bootstrap Toggle

Source: https://www.bootstraptoggle.com/

Description: Bootstrap Toggle is a highly flexible Bootstrap plugin that converts checkboxes into toggles.

Usage: Imported Bootstrap Toggle Library using free API created by Min Hur from the The New York Times

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

    <!--Bootstrap Toggle API Import-->
    <script
src="https://gitcdn.github.io/bootstrap-toggle/2.2.2/js/bootstrap-tog
gle.min.js"></script>

    <title>Dashboard</title>
  </head>
```

Bootstrap Datepicker

Source: https://bootstrap-datepicker.readthedocs.io/en/latest/

Description: Bootstrap-datepicker provides a flexible datepicker widget in the Bootstrap style.

Usage: Imported JS plugins using free API created by eternicode

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

    <!-- Bootstrap Datepicker API Import -->
    <script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.4.
1/js/bootstrap-datepicker.min.js"></script>

    <title>Dashboard</title>
  </head>
```

All together

The **jQuery API Import** has to go **first** because both Popper.js and the Bootstrap JavaScript API plugins are both built of the jQuery library

The **Popper.js API Import** comes **second** because it only requires the jQuery library to function. All of the Bootstrap JavaScript plugins require Popper.js

The **Base Bootstrap JavaScript plugin** comes **third** because it requires both the jQuery library and Popper.js to function.

The **Bootstrap Toggle and Bootstrap Datepicker API Imports** come **last** because they are an extension of the Base Bootstrap Library. Therefore, they require the Base Bootstrap Library to function

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

```html
    <!--jQuery Slim Build API Import-->
    <script src="https://code.jquery.com/jquery-3.4.1.slim.min.js"
integrity="sha384-J6qa4849blE2+poT4WnyKhv5vZF5SrPo0iEjwBvKU7imGFAV0ww
j1yYfoRSJoZ+n" crossorigin="anonymous"></script>

    <!--Bootstrap Toggle API Import-->
    <script
src="https://gitcdn.github.io/bootstrap-toggle/2.2.2/js/bootstrap-tog
gle.min.js"></script>

    <!--Popper.js API Import-->
    <script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.mi
n.js"
integrity="sha384-Q6E9RHvbIyZFJoft+2mJbHaEWldlvI9IOYy5n3zV9zzTtmI3Uks
dQRVvoxMfooAo" crossorigin="anonymous"></script>

    <!--Bootstrap Toggle API Import-->
    <script
src="https://gitcdn.github.io/bootstrap-toggle/2.2.2/js/bootstrap-tog
gle.min.js"></script>

    <!-- Bootstrap Datepicker API Import -->
    <script type="text/javascript"
src="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-datepicker/1.4.
1/js/bootstrap-datepicker.min.js"></script>

    <title>Dashboard</title>
  </head>
```

PDF.js

Source: https://mozilla.github.io/pdf.js/

Description: A general-purpose, web standards-based platform for parsing and rendering PDFs.

Usage: Imported PDF.js library using free API provided by Mozilla

```html
<html lang="en">
  <head>
    <!-- Required meta tags -->
```

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

    <!--Bootstrap PDF.js API Import-->
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/jspdf/1.5.3/jspdf.debug.js"
integrity="sha384-NaWTHo/8YCBYJ59830LTz/P4aQZK1sS0SneOgAvhsIl3zBu8r9R
evNg5lHCHAuQ/" crossorigin="anonymous"></script>

    <title>Dashboard</title>
  </head>
```

Image Libraries

Feather Icons

Source : https://feathericons.com/

Description: Feather is a collection of open source icons. Each icon is designed on a 24x24 grid.

Usage: Imported Feather library using free API provided by Cole Bemis

```html
<!DOCTYPE html>
<html lang="en">
  <title></title>
  <script src="https://unpkg.com/feather-icons"></script>
  <body>

    <!-- example icon -->
    <i data-feather="circle"></i>

    <script>
      feather.replace()
    </script>
  </body>
</html>
```