Sass Imports and Bootstrap

Sudhakar Sharma

•

Mar 12

Bundling  
                        =======  
- It is the process of bundling all css into one file.  
- It will reduce the number of requests for page.  
- It will improve the page load time.  
  
Process:  
1. We create separate sass file for every set of effects.  
2. If sass file is designed for importing into another file then it must have the file name starting with "\_".  
  
                file.scss           // not for exporting and importing  
                \_file.scss          // intended to export and import  
  
3. You can import in any another sass document by using  
  
        @import   "file"  
  
  
Ex:  
1. Add following files  
  
        \_variables.scss  
  
$border:1px solid red;  
$padding:5px;  
$shadow:2px 2px 3px black;  
  
        \_buttons.scss  
  
@import "variables";  
  
button {  
    border:$border;  
    background-color: tomato;  
    color:white;  
    padding: 3px;  
    font-size: 19px;  
}  
  
        \_lists.scss  
  
  
@import "variables";  
ol, ul {  
    list-style: none;  
}  
li {  
    display: inline;  
    border: $border;  
    padding:$padding;  
    background-color: yellow;  
}  
  
         theme.scss  
  
@import "variables";  
@import "buttons";  
@import "lists";  
body {  
    font-family: Arial;  
    box-shadow: $shadow;  
    height: 200px;  
    padding: $padding;  
    border:$border;  
}  
  
2. Trans compile  "theme.scss"  
  
   > sass   theme.scss   theme.css  
  
  
3. Link theme.css  
  
home.html  
  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>Home</title>  
        <link rel="stylesheet" href="./theme.css">  
    </head>  
    <body>  
        <div>  
            <button>Register</button>  
            <button>Cancel</button>  
        </div>  
        <div>  
            <ol>  
                <li>Home</li>  
                <li>About</li>  
                <li>Contact</li>  
            </ol>  
        </div>  
    </body>  
</html>  
  
  
                        theme.css  
  
button {  
  border: 1px solid red;  
  background-color: tomato;  
  color: white;  
  padding: 3px;  
  font-size: 19px;  
}  
  
ol, ul {  
  list-style: none;  
}  
  
li {  
  display: inline;  
  border: 1px solid red;  
  padding: 5px;  
  background-color: yellow;  
}  
  
body {  
  font-family: Arial;  
  box-shadow: 2px 2px 3px black;  
  height: 200px;  
  padding: 5px;  
  border: 1px solid red;  
}  
  
/\*# sourceMappingURL=theme.css.map \*/  
  
  
               Component Libraries for Web Design  
               =============================  
-  A component means  a web template that contains  
        a) presentation  
        b) styles  
        b) logic  
- Presentation is designed in HTML  
- Styles are defined with CSS.  
- Logic by using script [JavaScript, TypeScript]  
- There are various component libraries for web development  
  
        a) Bootstrap  
        b) Twitter Bootstrap  
        c)  React Material  
        d)  Angular Material  
        e) Telerik  
        f )  DevExpress  
        g)  jQuery UI  etc..  
  
  
                      Bootstrap  
                      =======  
- It is a component library.  
- It is free and open source.  
- It is cross platform  
- It also provide premium service.  
        "www.getbootstrap.com&quot;  
- It provides  
        a) HTML code snippets        [presentation]  
        b) CSS classes                [styles]  
        c) jQuery Attributes                [functionality]  
  
  
        <div class="btn btn-primary" data-bs-toggle="">  
         
        </div>          
  
  
Setup Environment for Bootstrap in Project  
=================================  
1. Install Bootstrap CSS  
        > npm install bootstrap  --save  
  
2. Install Bootstrap Icons  
        > npm install bootstrap-icons --save  
  
3. Install jQuery  
        > npm install jquery --save  
  
  
To use bootstrap and all its components in Web Page:  
 - Link the following style sheets in head section  
        - bootstrap.css  
        - bootstrap-icons.css  
  
 - Link the following scripts in body section  
        - jquery.js  
        - bootstrap.bundle.js  
  
Ex:  
<!DOCTYPE html>  
<html>  
    <head>  
        <title>Bootstrap Demo</title>  
        <link rel="stylesheet" href="../node\_modules/bootstrap/dist/css/bootstrap.css">  
        <link rel="stylesheet" href="../node\_modules/bootstrap-icons/font/bootstrap-icons.css">  
    </head>  
    <body>  
  
        <script src="../node\_modules/jquery/dist/jquery.js"></script>  
        <script src="../node\_modules/bootstrap/dist/js/bootstrap.bundle.js"></script>  
    </body>  
</html>  
  
Note: CSS files have no order dependency.  
          JavaScript files have order dependency.  
          Bootstrap uses a font called "Roboto"  
  
  
                    Bootstrap Layout  
                   ==============  
1. Containers  
        .container  
        .container-sm  
        .container-lg  
        .container-xl  
        .container-md  
        .container-fluid  
  
2. Box Model  
  
        Margins  
        =======  
        .m        margin  
         {s}        left  
         {e}        right  
         {t}        top  
         {b}        bottom  
  
        .ms  
        .me  
        .mt  
        .mb  
  
        -{1 to 4}  
  
        .ms-4  
        .mt-4  
        .mb-3  
  
        Padding  
        ======  
        .p  
        .p{s,e,t,b}  
        .p{s,e,t,b}-{1 to 4}  
  
        .pt-2