

Styling Angular Application: CSS, Bootstrap, NG Bootstrap and Angular Material



Adding styles in Angular Application - Part 1

There are several ways to add styles to Angular Application / component:

- By setting styles or styleUrls metadata.
 - The styles can be specified in @Component metadata and it will apply only within the template of that component.
- Inline in the template HTML.
 - The styles can be specified directly into the HTML template by putting them inside <style> tag.
- With CSS imports.
 - The styles can be specified by importing CSS files into the CSS files using the standard CSS @import rule.

Adding styles in Angular Application - Part 2

Adding Bootstrap 4 in Angular Application

- First you need to install bootstrap 4 via npm
 - `$ npm install --save bootstrap`
- To add the bootstrap include the CSS files at the head of your app main HTML file or also with an `@import` in `style.css`
 - `@import "~bootstrap/dist/css/bootstrap.css"`
- The other way is adding the bootstrap inside the `angular.json` file.

```
"styles": [  
  |  "./node_modules/bootstrap/dist/css/bootstrap.min.css",  
  |  "src/styles.css"  
  ],  
"scripts": []
```

What is NG Bootstrap?

- NG Bootstrap - Angular directives specific to Bootstrap 4.
- It contains a set of native Angular components based on Bootstrap 4's markup and CSS.
 - Ng Bootstrap:- <https://ng-bootstrap.github.io>
- Install NG Bootstrap via npm
 - `$ npm install --save @ng-bootstrap/ng-bootstrap`
- Update **app.module.ts** to import **NgbModule** (NG Bootstrap main module) and add it into the list of **imports**.

What is Angular Material Design?

- Is a package or tool for Angular developers.
- It contains high quality UI components from Google material design.
 - Angular Material:- <https://material.angular.io/>
 - Google Material Design:- <https://material.io/>
- Material Design is a design language created by Google in 2014 that dictates a set of principles and guidelines for creating UIs including motion (animations) and interaction (gestures).

Building Angular Material Application

Step 1: Installation

- Install Angular Material, Angular CDK and Angular Animations.
 - `npm install --save @angular/material @angular/cdk @angular/animations`
 - **@angular/material** - the official material design package for the Angular framework.
 - **@angular/cdk** - CDK stands for “component dev kit”, which provides us with high-quality predefined behaviors for your components, since modern web development is all about components.
 - **@angular/animations** - support animations for angular material components.

Build Angular Material Application

Step 2: Import the component modules

- Some component modules are: MatButtonModule, MatCheckboxModule.

```
import { MatButtonModule, MatCheckboxModule } from
  '@angular/material';
```

Step 3: Include a theme

- Including a theme is required to apply all of the core and theme styles to your application.
- Open the **style.css** file and add the following CSS @import

```
@import "~@angular/material/prebuilt-themes/indigo-pink.css";
```

Build Angular Material Application

- Some pre-built themes:
 - `deeppurple-amber.css`
 - `indigo-pink.css`
 - `pink-bluegrey.css`
 - `purple-green.css`

Angular Material Starter Components

The following starter components are available:

- **@angular/material:material-dashboard:** Create a card-based dashboard component
- **@angular/material:material-table:** Create a component that displays data with a data-table
- **@angular/material:material-nav:** Create a component with a responsive sidenav for navigation

To make use of above starter components you need to use the ng generate commands:

```
$ ng generate @angular/material:material-nav --name myNav
```

```
$ ng generate @angular/material:material-dashboard --name myDashboard
```

```
$ ng generate @angular/material:material-table --name myTable
```

Thank You!