

Angular Bootstrap

- Bootstrap is a free & open-source front-end framework for developing web applications.
- It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions.
- In Angular we can use the concept Bootstrap design to create our GUI much more better.
- Bootstrap, originally named Twitter Blueprint, was developed by Mark Otto and Jacob Thornton at Twitter as a framework to encourage consistency across internal tools.
- Before Bootstrap, various libraries were used for interface development, which led to inconsistencies and a high maintenance burden.

Versions of Bootstrap:

Bootstrap 1:

In August 19, 2011 first Bootstrap 1 released .

It has continued to be maintained by Mark Otto, Jacob Thornton, and a small group of core developers, as well as a large community of contributors.

Bootstrap 2:

On January 31, 2012, Bootstrap 2 was released, which added a twelve-column responsive grid layout system, inbuilt support for Glyphicons, several new components, as well as changes to many of the existing components.

Bootstrap 3:

On August 19, 2013, Bootstrap 3 was released, which redesigned components to use flat design, and a mobile first approach.

Bootstrap 4:

On October 29, 2014, Mark Otto announced that Bootstrap 4 was in development.

The first alpha version of Bootstrap 4 was released on August 19, 2015.

The first beta version was released on 10 August 2017.

The stable version of Bootstrap 4 was released on January 18, 2018 basically improving print styles and border utilities and also providing more control over the flexbox.

To use the concept of ngx Bootstrap in Angular application refer below link

https://valor-software.com/ngx-bootstrap/#/



To use Bootstrap in Angular we have to follow below steps as

Step 1:

Create regular Angular project as ng new MarvellousBootstrap

Step 2:

Enter inside project folder cd MarvellousBootstrap

Step 3:

Install ngx-bootstrap and bootstrap

npm install ngx-bootstrap bootstrap --save

Step 4:

Open src/app/app.module.ts and add:

import { AlertModule } from 'ngx-bootstrap';

```
@NgModule({
    ...
    imports: [AlertModule.forRoot(), ... ],
    ...
})
```

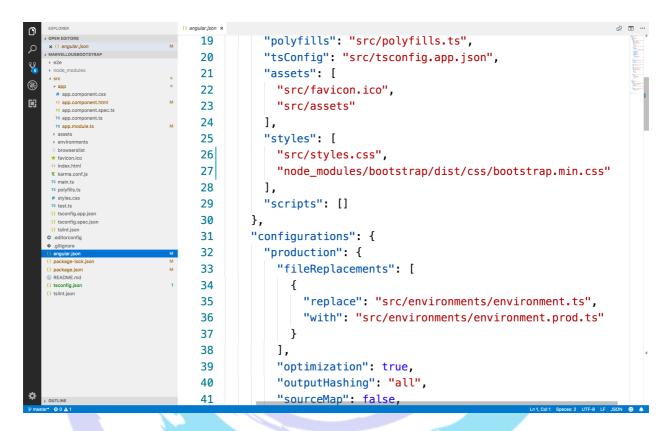
```
OPEN EDITORS
                                         1 import { BrowserModule } from '@angular/platform-browser';
     x TS app.module.ts sn
                                         2 import { NgModule } from '@angular/core';
     ⊳ e2e
                                         3 import { AlertModule } from 'ngx-bootstrap';
                                            import { AppComponent } from './app.component';
O app.component.html
                                         5
      TS app.component.spec.ts
      TS app.component.ts
                                            @NgModule({
                                         6
      TS app.module.ts
                                         7
                                                declarations: [
      browserslist
                                                   AppComponent
                                         8
      index.html
                                         9
                                                ],
     rs main.ts
     TS polyfills.ts
                                        10
                                                imports: [
     # styles.css
     Ts test.ts
() tsconfig.app.json
                                        11
                                                   BrowserModule,AlertModule.forRoot()
                                        12
     {} tsconfig.spec.jsor
     {} tslint.json
                                        13
                                                providers: [],
    .editorconfig
    gitignore
    {} angular.json
{} package-lock.json
                                        14
                                                bootstrap: [AppComponent]
                                        15 })
    {} package.json
     README.md
                                        16 export class AppModule { }
    {} tsconfig.json
    {} tslint.json
                                        17
```



Step 5:

Open .angular-cli.json / angular.json and insert a new entry into the styles array:

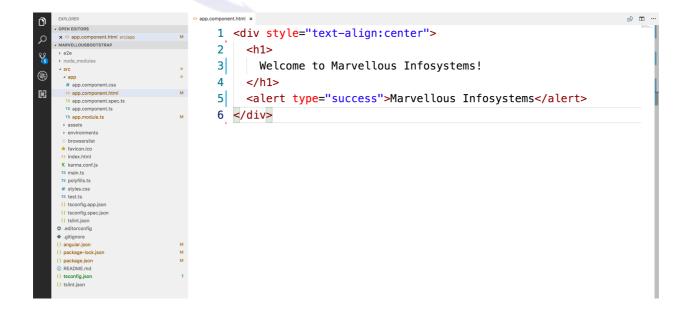
```
"styles": [
    "../node_modules/bootstrap/dist/css/bootstrap.min.css",
    "styles.css",
],
```



Step 6:

Open src/app/app.component.html and add:

<alert type="success">Marvellous Infosystems</alert>





Step 7:

Now start angular application as

Npm start

Step 8:

Open the browser and enter the URL

http://localhost:4200



