## Module 2: Modules and Components

Demo Document 2: Create A Shopping List Component

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## **Create A Shopping List Component Using Bootstrap Styles**

In this demo, we will see how to create new component using Angular and style our application using bootstrap 4.

### Step 1 -

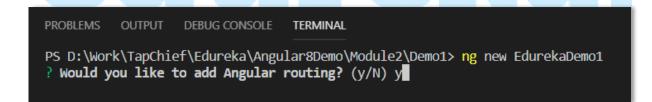
- Open Visual Studio Code, navigate to Terminal → New Terminal, it will open a new terminal window
- Check node.js version using command 'node -v' (see the screenshot below)
- Check angular cli version using command 'ng version' or 'ng –version'

### Step 2 -

 Navigate to the folder where you want to build the Angular app. Create new Angular app by using command 'ng new {AppName}'

Make a note of this app as we will be using same app in the next demo as well

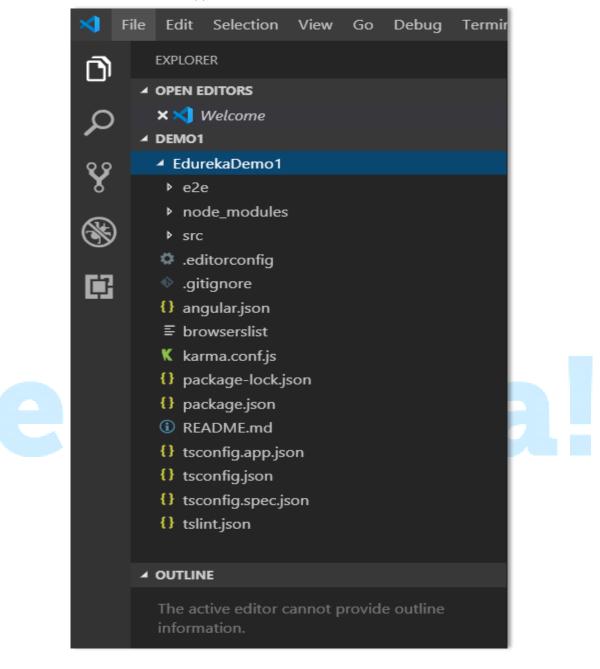
Enter y when it asks, 'Would you like to add Angular routing?'



When it prompts: ? Which stylesheet format would you like to use?
 Select > CSS and press enter

Wait for a few minutes for the npm packages to be installed. Once the download is completed, you will get a success message in command prompt. Ignore any warnings.

Step 3 – Open the app in Visual studio code by navigating to File → Open Folder → {AppName}, app/folders will be loaded as below



### Step 4 -

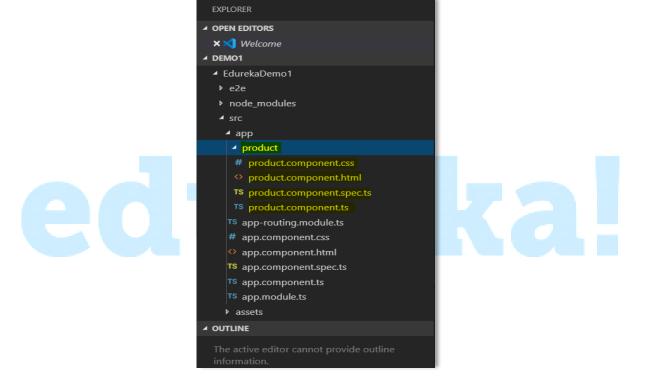
• Create new component named 'product' using the command 'ng generate component {ComponentName}'



New product component will be created as shown below

```
PS D:\Work\TapChief\Edureka\Angular8Demo\Module2\Demo1\edurekademo1\src\app> ng generate component product CREATE src/app/product/product.component.html (22 bytes)
CREATE src/app/product/product.component.spec.ts (635 bytes)
CREATE src/app/product/product.component.ts (273 bytes)
CREATE src/app/product/product.component.css (0 bytes)
UPDATE src/app/app.module.ts (479 bytes)
PS D:\Work\TapChief\Edureka\Angular8Demo\Module2\Demo1\edurekademo1\src\app>
```

Also, we can see in the app folder, all the files related to product component will be created



4 types of files will be created for component as below

- .css -> styling
- .html -> template
- .spec.ts -> testing
- .ts ->root file

<sup>&#</sup>x27;ng generate component' command will automatically add product component reference in the app.module.ts file as shown below

```
🏋 app.module.ts
EdurekaDemo1 > src > app > TS app.module.ts > 4 AppModule
       import { BrowserModule } from '@angular/platform-browser';
       import { NgModule } from '@angular/core';
       import { AppRoutingModule } from './app-routing.module';
       import { AppComponent } from './app.component';
       import { ProductComponent } from './product/product.component';
       @NgModule({
         declarations: [
           AppComponent,
           ProductComponent
 11
 12
         ],
 13
         imports: [
           BrowserModule,
 14
 15
           AppRoutingModule
         ١,
         providers: [],
 17
         bootstrap: [AppComponent]
 19
       export class AppModule { }
 21
```

Step 5 – Open app.component.html file and remove the highlighted lines.

### Step 6 – Add the following lines of code to app.component.html file

### **Step 7** – Add the selector <app-product> to app.component.html file.

Now our product component is ready, but we don't have any html code added to product component. We will add html tags and styles and create our shopping list design page as below.

**Step 8**– To use Bootstrap library for styling the application, import it from the links. Add reference of bootstrap to src/index.html file as shown below

Step 9- Open product.component.ts file and add the following code to create the logic for shopping list

```
export class ProductComponent implements OnInit {
products: Product[];
selectedProduct:Product;
productList: Product[]=[];
errorItem: boolean = false;

constructor() {}
    ngOnInit() {
    this.products = [
      {
        p_id : 1,
        product_name : '',
        product_weight : '',
        product_price : 0,
```

```
product_image : ''
  ]
  }
total() {
    return this.productList.reduce((total, item) => total + item.product_price, 0)
}
addToCart(item) {
    if(this.productList.indexOf(item) === -1) {
      this.productList.push(item);
      this.errorItem = false;
    else if (this.productList.indexOf(item) > -1) {
        this.errorItem = true;
   removeItem(item) {
   var index = this.productList.indexOf(item);
   if (index > -1) {
      this.productList.splice(index, 1);
```

Step 10- Open product.component.html file and add html code to create shopping list design

```
<div>
        <div class="row">
          <div class="col-8">
        <div class="card">
          <div class="card-header bg-info">SHOPPING LIST</div>
          <div class="card-body">
            <div class="row">
  <div class="col-xl-4 col-sm-6 col-12 border border-warning mb-</pre>
2" *ngFor = "let item of products">
                <div class="row text-center mb-2">
                  <div class="col-12">
                      <img class="img-fluid mt-</pre>
3" src="{{item.product_image}}" alt="Card image cap">
                  </div>
                </div>
                <div class="row">
                  <div class="col-12">
```

```
<h6 class="card-title font-weight-
bold" > {{item.product_name}}</h6>
                 </div>
               </div>
               <div class="row">
                    <div class="col-md-6">
                      text"> <small> {{item.product_weight}}  </small>
                    </div>
                     <div class="col-md-6">
                     right"> <small> Rs {{item.product_price}} </small> 
                     </div>
                  </div>
               <div class="row text-center mb-1">
                 <div class="col-12">
                   <button class="btn btn-sm btn-</pre>
primary" (click)="addToCart(item)">Add to Cart</button>
                 </div>
               </div>
             </div>
           </div>
         </div>
```

```
<div class="card-footer text-center">Copyright</div>
        </div>
          </div>
          <div class="col-x1-4">
            <div class="card">
          <div class="card-header bg-warning">
            <div *ngIf="productList.length == 0">You have no items in your basket
/div>
            <div *ngIf="productList.length == 1">You have {{productList.length}}
item in your basket</div>
             <div *ngIf="productList.length > 1">You have {{productList.length}}
items in your basket</div>
          </div>
          <div class="card-body">
            <div class="row">
              <div class="col-12">
                <div class="text-danger" *ngIf="errorItem">
                  You have already this item in your list
                </div>
              </div>
            </div>
           <div class="row">
```

```
<div class="col-12" >
     Product
          Amount
            Actions
       </thead>
       {{cart.product_name}} 
        {{cart.product_price}} 
          <button class="btn btn-info btn-</pre>
sm" title="Remove Item" (click)="removeItem(cart)"><i class="fas fa-trash fa-</pre>
sm"></i></button>
        </div>
```

```
</div>
</div>
</div class="card-footer bg-dark text-white text-center">

    Total Amount: Rs. {{total()}}

    </div>
</div>
</div>
</div>
</div>
</div>
```

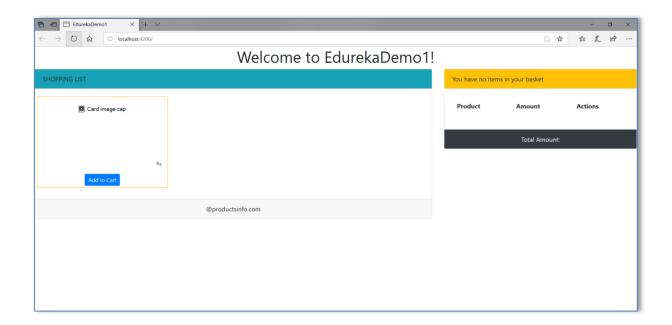
**Step 11** – Overwrite existing image styles by adding height & width property of image in the product.component.css as below.

Step 12 – Run Angular application by using command 'ng serve --open'

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\Work\TapChief\Edureka\Angular8Demo\Module2\Demo1\edurekademo1> ng serve --open
```

**Step 13** – This will open our shopping list app in the browser as shown below.



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