ESE Practical lab Web Technology

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Problem statement:

Write a program using angular to create shopping list.

Solution:

Folder Structure:

```
Shopping-List
     -node_modules
     -src
           -assets
           -favicon.ico
           -index.html
           -main.ts
           -styles.cs
           -app
                -app-routing.module.ts
                -app.component.css
                -app.component.html
                -app.component.spec.ts
                 -app.component.ts
                -app.module.ts
                -shopping-list
                      -shopping-list.component.html
                      -shopping-list.component.ts
                      -shopping-list.component.spec.ts
                      -shopping-list.component.css
```



- 1. Create angular app in desired directory by command ng new shopping-list
- 2. Index.html is entry point it looks like

<!doctype html>

<app-root></app-root>

</body> </html>

Now generate component shopping-list by commandng g c shopping-list

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS

■ PS C:\Users\smart\Documents\AngularShoppingList> ng g c shopping-list
CREATE src/app/shopping-list/shopping-list.component.html (28 bytes)
CREATE src/app/shopping-list/shopping-list.component.ts (300 bytes)
CREATE src/app/shopping-list/shopping-list.component.ts (300 bytes)
CREATE src/app/shopping-list/shopping-list.component.css (0 bytes)
UPDATE src/app/app.module.ts (1202 bytes)

PS C:\Users\smart\Documents\AngularShoppingList> [
```

3. In the <u>shopping-list/shopping-list.component.html</u> file create the view of application :

```
<!-- src/app/shopping-list/shopping-list.component.html --> <div class="shopping-list-container">
```

```
<h1>Shopping List</h1>
 <h2>Let's go shopping. ...</h2>
 <div class="input-container">
  <label for="item">Item:</label>
  <input id="item" [(ngModel)]="newItem" placeholder="Enter item" />
  <label for="quantity">Quantity:</label>
  <input
    id="quantity"
    [(ngModel)]="newQuantity"
    placeholder="Enter quantity"
  <button (click)="addItem()">Add Item
  <button (click)="removeItem(0)">Remove Item</button>
 </div>
 <thead>
    Item Number 
     Item
     Quantity
     Action
    </thead>
  {{i + 1 }}
     {{ item.name }}
     {{ item.quantity }}
     <button class="delete-btn" (click)="removeItem(i)">Remove
Item</button>
     </div>
```



4. In the shopping-list/shopping-list.component.ts file write the logic of the addition and deletion of item imputed from html file.

```
// src/app/shopping-list/shopping-list.component.ts
import { Component } from '@angular/core';
@Component({
 selector: 'app-shopping-list',
 templateUrl: './shopping-list.component.html',
  styleUrls: ['./shopping-list.component.css'],
})
export class ShoppingListComponent {
 newItem: string = '';
 newQuantity: string = '';
  shoppingItems: { name: string; quantity: string }[] = [];
 addItem() {
    if (this.newItem && this.newQuantity) {
      this.shoppingItems.push({
       name: this.newItem,
        quantity: this.newQuantity,
      });
      this.newItem = '';
      this.newQuantity = '';
    }
  }
 removeItem(index: number) {
    this.shoppingItems.splice(index, 2);
  }
```

5. Add CSS to the html file for view shopping-list.component.css

```
/* src/app/shopping-list/shopping-list.component.css */
.shopping-list-container {
  font-family: Georgia, 'Times New Roman', Times, serif;
  text-align: center;
  margin: 50px;
```



```
border-radius: 5%;
 background-color: rgb(155, 126, 222);
 border: 3px solid rgb(155, 126, 222);
 color: rgb(0, 34, 128);
 font-family: Arial, Helvetica, sans-serif;
.input-container {
 margin-bottom: 20px;
 display: flex;
 flex-direction: column;
label {
 margin: auto;
 padding: 2px;
input {
 margin: 4px auto;
 border-radius: 5%;
 padding: 8px;
button {
 background-color: rgb(131, 33, 97);
 border: 2px solid rgb(131, 33, 97);
 border-radius: 10%;
 color: white;
 padding: 7px 10px;
 margin: 6px auto;
 cursor: pointer;
 justify-content: center;
 transition: background-color 0.3s;
button:hover {
 background-color: tan;
```



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```

```
.shopping-table {
 justify-content: center;
 align-items: center;
 margin: auto;
 width: 80%;
 text-align: center;
td,
th {
 border: 1px solid brown;
 padding: 8px;
th {
 padding-top: 12px;
 padding-bottom: 12px;
 text-align: left;
 background-color: rgb(188, 210, 238);
 color: rgb(82, 5, 10);
.delete-btn {
 background-color: red;
.delete-btn:hover {
 background-color: rgb(84, 3, 3);
```

6. In the app.module.ts file

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { FormsModule } from '@angular/forms';

import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
```

```
import { ShoppingListComponent } from
'./shopping-list/shopping-list.component';
@NgModule({
  declarations: [
   AppComponent,
    ShoppingListComponent
  1,
  imports: [
   BrowserModule,
   AppRoutingModule,
    FormsModule
  ],
 providers: [],
 bootstrap: [AppComponent]
})
export class AppModule { }
```

Command for running the angular application

OutPut:







