

Productsfilter.component.ts

```
import { Component, OnInit, Input, Output, EventEmitter } from '@angular/core';

@Component({
  selector: 'app-productsfilter',
  templateUrl: './productsfilter.component.html',
  styleUrls: ['./productsfilter.component.css']
})
export class ProductsfilterComponent {
  @Input() AllCount = 0;
  @Input() ElectronicsCount = 0;
  @Input() FootwearCount = 0;
  @Input() FashionCount = 0;

  selectedCategoryName = 'All';
  @Output() FilterChanged : EventEmitter<string> = new EventEmitter<string>();

  onCategoryChanged(){
    this.FilterChanged.emit(this.selectedCategoryName)
  }
}
```

Productsfilter.component.html

```
<div>
  <h3>Filter Products</h3>
  <div class="mt-2">
    <select class="form-select" [(ngModel)]="selectedCategoryName"
(change)="onCategoryChanged()" >
      <option value="All">All [{{AllCount}}] </option>
      <option value="Electronics">Electronics [{{ElectronicsCount}}] </option>
      <option value="Footwear">Footwear [{{FootwearCount}}] </option>
      <option value="Fashion">Fashion [{{FashionCount}}] </option>
    </select>
  </div>
  <div class="mt-2">
    <h5>Choose Category</h5>
    <ul class="list-unstyled">
      <li><input type="radio" (change)="onCategoryChanged()"
[(ngModel)]="selectedCategoryName" name="category" value="All">All [{{AllCount}}]</li>
      <li><input type="radio" (change)="onCategoryChanged()"
[(ngModel)]="selectedCategoryName" name="category" value="Electronics">Electronics
[{{ElectronicsCount}}]</li>
```

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        <li><input type="radio" (change)="onCategoryChanged()"
[(ngModel)]="selectedCategoryName" name="category" value="Footwear">Footwear
[{{FootwearCount}}]</li>
        <li><input type="radio" (change)="onCategoryChanged()"
[(ngModel)]="selectedCategoryName" name="category"
value="Fashion">Fashion[{{FashionCount}}]</li>
    </ul>
    <h5>Choose Category</h5>
    <ul class="list-unstyled">
        <li><input type="checkbox" (change)="onCategoryChanged()" name="category"
value="All">All [{{AllCount}}]</li>
        <li><input type="checkbox" (change)="onCategoryChanged()" name="category"
value="Electronics">Electronics [{{ElectronicsCount}}]</li>
        <li><input type="checkbox" (change)="onCategoryChanged()" name="category"
value="Footwear">Footwear [{{FootwearCount}}]</li>
        <li><input type="checkbox" (change)="onCategoryChanged()" name="category"
value="Fashion">Fashion[{{FashionCount}}]</li>
    </ul>
</div>
</div>

```

Products.component.ts

```
import { Component, OnInit } from '@angular/core';
```

```

@Component({
  selector: 'app-products',
  templateUrl: './products.component.html',
  styleUrls: ['./products.component.css']
})
export class ProductsComponent {
  products = [
    {Name: 'JBL Speaker', Price: 5600.55, Photo: 'assets/speaker.jpg', Category: 'Electronics'},
    {Name: 'EarPods', Price: 3600.55, Photo: 'assets/earpods.jpg', Category: 'Electronics'},
    {Name: 'Nike Casuals', Price: 8000.55, Photo: 'assets/shoe.jpg', Category: 'Footwear'},
    {Name: 'Lee Boot', Price: 2000.55, Photo: 'assets/shoe1.jpg', Category: 'Footwear'},
    {Name: 'Shirt', Price: 4000.55, Photo: 'assets/shirt.jpg', Category: 'Fashion'},
    {Name: 'Jeans', Price: 2000.55, Photo: 'assets/jeans.jpg', Category: 'Fashion'},
  ]
  allCount = this.products.length;
  electronicsCount = this.products.filter(product=> product.Category=="Electronics").length;
  footwearCount = this.products.filter(product=> product.Category=="Footwear").length;
  fashionCount = this.products.filter(product=> product.Category=="Fashion").length;

  CategoryName = 'All';

```

```
onFilterChanged(e:string){  
  this.CategoryName = e;  
}  
}
```

Products.component.html

```
<div class="container-fluid">  
  <div class="row mt-3">  
    <div class="col-2">  
      <app-productsfilter (FilterChanged)="onFilterChanged($event)" [AllCount]="allCount"  
[ElectronicsCount]="electronicsCount" [FootwearCount]="footwearCount"  
[FashionCount]="fashionCount" ></app-productsfilter>  
    </div>  
    <div class="col-10">  
      <h3 class="text-center">Search Results</h3>  
      <div class="card-group flex-wrap">  
        <ng-container *ngFor="let item of products">  
          <div class="card" *ngIf="CategoryName=='All' || CategoryName==item.Category">  
            <div class="card-header text-center">  
              <h3>{{item.Name}}</h3>  
            </div>  
            <div class="card-body text-center">  
              <img [src]="item.Photo" width="200" height="200">  
              <p>{{item.Price}}</p>  
            </div>  
          </div>  
        </ng-container>  
      </div>  
    </div>  
  </div>  
</div>  
</div>  
</div>
```