

DEVOIR DEVELOPPEMENT WEB: ANGULAR

Realisé par Ameni Lahouar.

Partie 1:

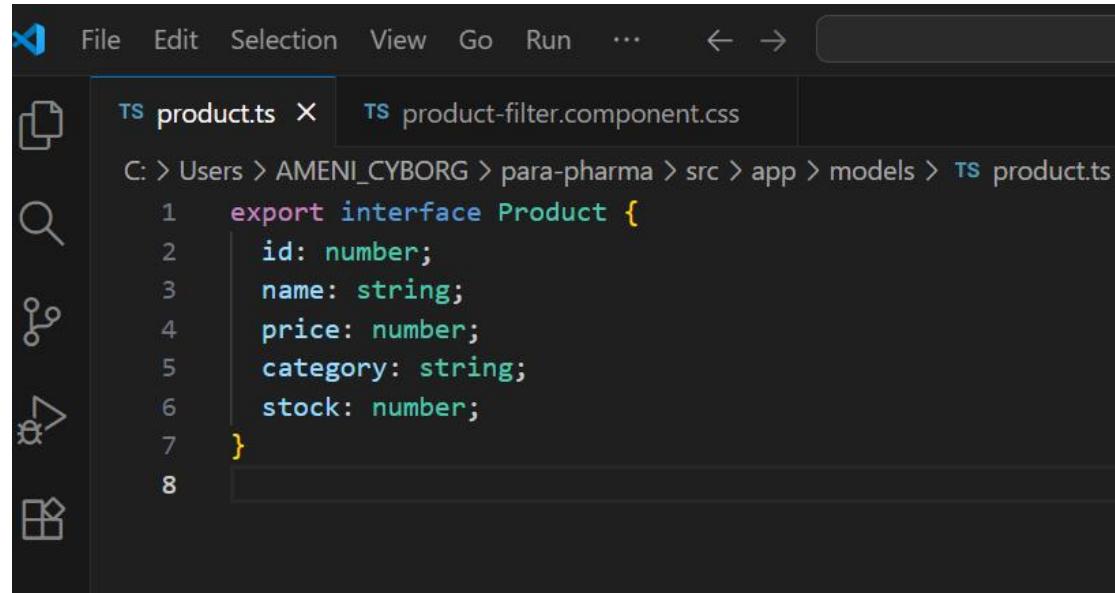
On a fait les commandes: `ng new para-pharma --standalone`
`cd para-pharma`

Partie 2:

On a fait la commande:`ng generate component components/product-filter --standalone`

```
✓ Packages installed successfully.  
'git' is not recognized as an internal or external command,  
operable program or batch file.  
PS C:\Users\AMENI_CYBORG> cd para-pharma  
PS C:\Users\AMENI_CYBORG\para-pharma> ng generate component components/product-filter --standalone  
? Would you like to share pseudonymous usage data about this project with the Angular Team  
at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more  
details and how to change this setting, see https://angular.io/analytics. No  
Global setting: enabled  
Local setting: disabled  
Effective status: disabled  
CREATE src/app/components/product-filter/product-filter.component.html (29 bytes)  
CREATE src/app/components/product-filter/product-filter.component.spec.ts (604 bytes)  
CREATE src/app/components/product-filter/product-filter.component.ts (328 bytes)  
CREATE src/app/components/product-filter/product-filter.component.css (0 bytes)  
PS C:\Users\AMENI_CYBORG\para-pharma> |
```

Partie3:



The screenshot shows the Visual Studio Code interface with the product.ts file open. The code defines an interface Product with properties id, name, price, category, and stock.

```
C: > Users > AMENI_CYBORG > para-pharma > src > app > models > product.ts
1  export interface Product {
2    id: number;
3    name: string;
4    price: number;
5    category: string;
6    stock: number;
7  }
8
```

Partie4:

File Edit Selection View Go Run ... ↶ →

Search

product.ts

```

1 import { Component } from '@angular/core';
2 import { FormsModule } from '@angular/forms';
3 import { Product } from '../../../../../models/product';
4 @Component({
5   selector: 'app-product-filter',
6   standalone: true,
7   imports: [FormsModule],
8   templateUrl: './product-filter.component.html',
9   styleUrls: ['./product-filter.component.css']
10 })
11 export class ProductFilterComponent {
12   searchText: string = '';
13   products: Product[] = [
14     { id: 1, name: 'Crème hydratante', price: 15, category: 'Soins', stock: 10 },
15     { id: 2, name: 'Gel douche', price: 5, category: 'Hygiène', stock: 0 },
16     { id: 3, name: 'Vitamine C', price: 12, category: 'Compléments', stock: 3 },
17     { id: 4, name: 'Shampooing antipelliculaire', price: 8, category: 'Cheveux', stock: 7 },
18     { id: 5, name: 'Masque visage', price: 20, category: 'Soins', stock: 2 },
19   ];
20   get filteredProducts(): Product[] {
21     const search = this.searchText.trim().toLowerCase();
22     if (!search) return this.products;
23     return this.products.filter(p => p.name.toLowerCase().includes(search));
24   }
25   stockColor(stock: number): string {
26     if (stock === 0) return 'red';
27     if (stock < 5) return 'orange';
28     return 'green';
29   }
30 }

```

Ln 1, Col 1 Spaces: 2 UTF-8 LF {} TypeScript

11/24 ENG FR 08/11/2025

Partie5:

File Edit Selection View Go Run ... ↶ →

Search

product.ts

product-filter.component.ts

```

1 <section class="product-filter">
2   <h1>Liste des produits</h1>
3
4   <!-- Barre de recherche -->
5   <input type="text" placeholder="Rechercher un produit..." [(ngModel)]="searchText" />
6
7   <!-- Liste des produits filtrés -->
8   <ul *ngIf="filteredProducts.length > 0; else noResult">
9     <li *ngFor="let p of filteredProducts; trackBy: p.id">
10       <span class="product-name">{{ p.name }}</span>
11       <span class="product-category">{{ p.category }}</span>
12       <span class="product-price">{{ p.price | currency:'EUR' }}</span>
13       <span class="product-stock" [style.color]="stockColor(p.stock)">
14         Stock: {{ p.stock }}
15       </span>
16     </li>
17   </ul>
18
19   <!-- Message état vide -->
20   <ng-template #noResult>
21     <p>Aucun produit correspondant.</p>
22   </ng-template>
23 </section>
24
25

```

Ln 24, Col 1 Spaces: 4 UTF-8 LF

Partie6:

```

19 ];
20
21   get filteredProducts(): Product[] {
22     const search = this.searchText.trim().toLowerCase();
23     if (!search) return this.products;
24     return this.products.filter(p => p.name.toLowerCase().includes(search));
25   }
26   stockColor(stock: number): string {

```

Partie7:

La partie VII concerne l'affichage des produits filtrés avec des **directives conditionnelles et de boucle**.

Utiliser `*ngIf` (ou `@if` en Angular 20) pour afficher soit la liste, soit le message “aucun résultat”.

Utiliser `*ngFor` (ou `@for`) pour parcourir `filteredProducts`.

Ajouter `trackBy: p.id` pour optimiser le rendu et éviter de recréer les éléments inutilement.

Colorer dynamiquement le stock avec

```
[style.color]="stockColor(p.stock)".
```

Résultat attendu :

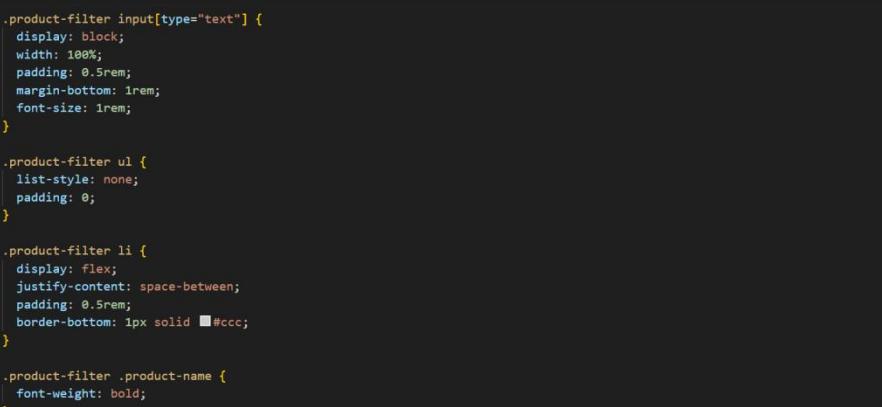
La liste des produits se met à jour en direct lors de la saisie dans le champ de recherche.

Si aucun produit ne correspond → affichage du message “Aucun produit correspondant”.

Les couleurs du stock s'appliquent automatiquement selon la quantité.

Il est aussi possible de mettre à jour le code pour utiliser la **nouvelle syntaxe Angular 20** @if/@for.

Partie8:

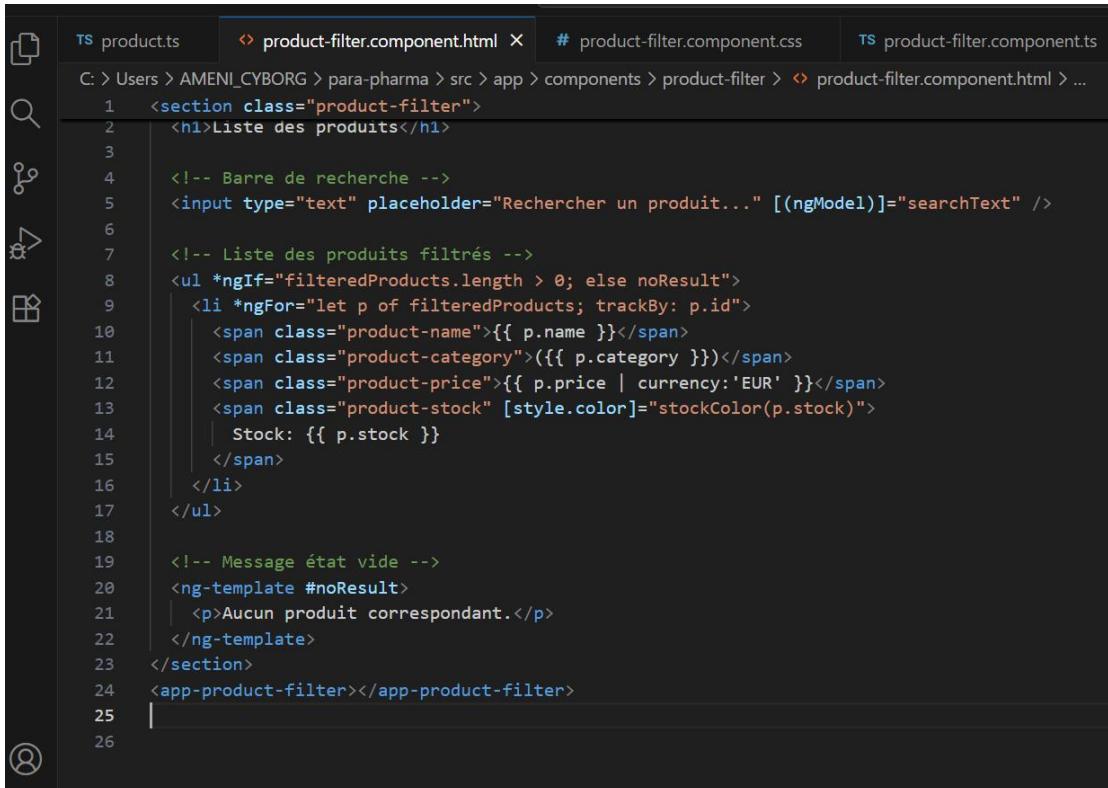


The screenshot shows a code editor window with the following details:

- File Path:** C:\Users\AMENI_CYBORG\para-pharma>src>app>**# app.component.css**
- Code Content:** The CSS file contains styles for a product filter. It includes rules for input fields, lists, and bolded product names.
- Editor UI:** The top bar shows standard file operations like File, Edit, Selection, View, Go, Run, etc. There is also a search bar and a tab icon labeled "Search".
- Sidebar:** On the left side, there are several icons representing different file types and operations, such as file, search, and refresh.

```
11 .product-filter input[type="text"] {  
12   display: block;  
13   width: 100%;  
14   padding: 0.5rem;  
15   margin-bottom: 1rem;  
16   font-size: 1rem;  
17 }  
18  
19 .product-filter ul {  
20   list-style: none;  
21   padding: 0;  
22 }  
23  
24 .product-filter li {  
25   display: flex;  
26   justify-content: space-between;  
27   padding: 0.5rem;  
28   border-bottom: 1px solid #ccc;  
29 }  
30  
31 .product-filter .product-name {  
32   font-weight: bold;  
33 }  
34  
35 }
```

Partie9:



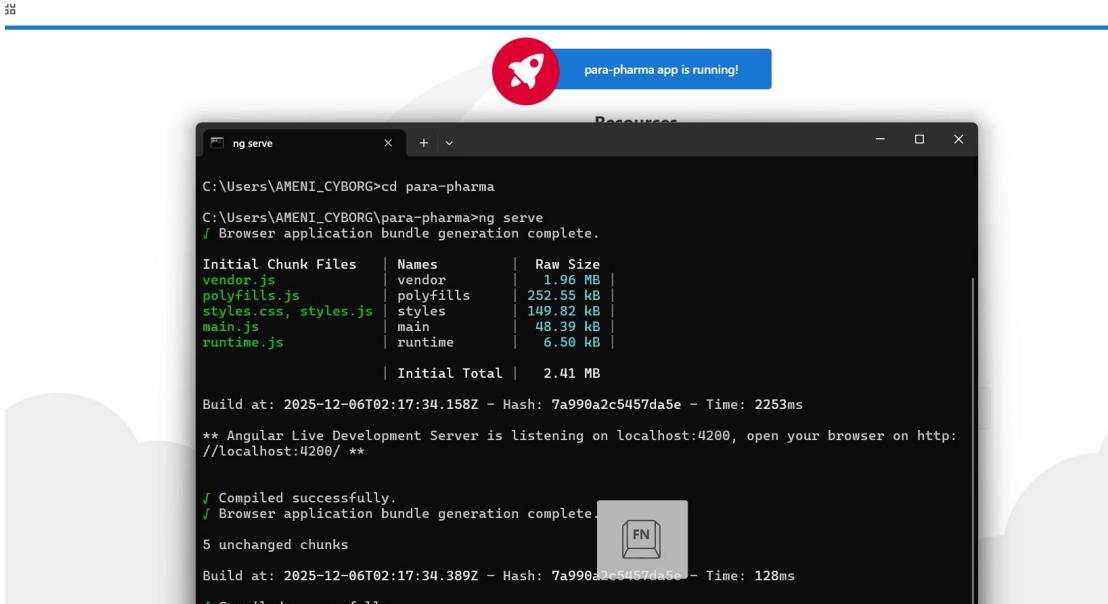
The screenshot shows a code editor with two tabs open: 'product.ts' and 'product-filter.component.html'. The 'product-filter.component.html' tab is active, displaying the following code:

```
C: > Users > AMENI_CYBORG > para-pharma > src > app > components > product-filter > product-filter.component.html > ...
1  <section class="product-filter">
2    <h1>Liste des produits</h1>
3
4    <!-- Barre de recherche -->
5    <input type="text" placeholder="Rechercher un produit..." [(ngModel)]="searchText" />
6
7    <!-- Liste des produits filtrés -->
8    <ul *ngIf="filteredProducts.length > 0; else noResult">
9      <li *ngFor="let p of filteredProducts; trackBy: p.id">
10        <span class="product-name">{{ p.name }}</span>
11        <span class="product-category">({{ p.category }})</span>
12        <span class="product-price">{{ p.price | currency:'EUR' }}</span>
13        <span class="product-stock" [style.color]="stockColor(p.stock)">
14          Stock: {{ p.stock }}
15        </span>
16      </li>
17    </ul>
18
19    <!-- Message état vide -->
20    <ng-template #noResult>
21      <p>Aucun produit correspondant.</p>
22    </ng-template>
23  </section>
24  <app-product-filter></app-product-filter>
25
26
```

on a ajouté la dernière ligne

Partie10:

On execute maintenant et ouvre le site web:



The screenshot shows a terminal window titled 'ng serve' with the following output:

```
C:\Users\AMENI_CYBORG>cd para-pharma
C:\Users\AMENI_CYBORG\para-pharma>ng serve
// Browser application bundle generation complete.

Initial Chunk Files  | Names      | Raw Size
vendor.js           | vendor     | 1.96 MB
polyfills.js        | polyfills  | 252.55 kB
styles.css, styles.js | styles    | 149.82 kB
main.js             | main       | 48.39 kB
runtime.js          | runtime    | 6.50 kB

| Initial Total | 2.41 MB

Build at: 2025-12-06T02:17:34.158Z - Hash: 7a990a2c5457da5e - Time: 2253ms

** Angular Live Development Server is listening on localhost:4200, open your browser on http://localhost:4200/ **

✓ Compiled successfully.
✓ Browser application bundle generation complete.
5 unchanged chunks
Build at: 2025-12-06T02:17:34.389Z - Hash: 7a990a2c5457da5e - Time: 128ms
✓ Compiled successfully.
```

A red circle icon with a white rocket ship is displayed above the terminal window, and a blue bar above it says 'para-pharma app is running!'. A small icon of a computer monitor with the letters 'FN' is also visible.