

Kimberly Clarisse P. Puno

6AWEB – 2196

WD – 302

January 21, 2026

Midterm Lab Activity 4: Sharing Local Data Across Components

Screenshot of formatted output, typescript code and css, and reflection about the activity.

ID	FIRST NAME	LASTNAME	EMAIL
101	Joseph	Dizon	jdizon@hau.edu.ph
102	James	Alienza	jalienza@hau.edu.ph
103	John	Cena	jcena@hau.edu.ph
104	Robert	Quintana	rquintana@hau.edu.ph
105	Kimberly	Puno	kpuno@hau.edu.ph

PRODUCT ID	PRODUCT NAME	DESCRIPTION	PRICE
P-101	Logitech Mouse	6 Button Mechanical Mouse	899.00
P-102	JBL BT Speaker	Waterproof Radio 360 Surround	1,099.00
P-103	Mechanical Keyboard	Hot-swappable RGB Backlit	2,395.00
P-104	Oculus Meta	All-in-one Gaming Headset	22,450.00

```
ng-services-demo > src > app > ts employees U
1 body {
2   background-color: #fff9c4;
3   font-family: Arial, sans-serif;
4   color: #000;
5   margin: 20px;
6 }
7
8 h2 {
9   color: #000080;
10  text-align: center;
11  margin-bottom: 10px;
12 }
13
14 table {
15   width: 100%;
16   border-collapse: collapse;
17   margin-bottom: 20px;
18   background-color: #fff9c4;
19   box-shadow: 0 2px 0px #000;
20 }
21
22 th {
23   background-color: #000080;
24   color: #fff;
25   padding: 5px;
26   text-align: center;
27   border: 1px solid #000;
28 }
29
30 td {
31   padding: 5px;
32   border: 1px solid #000;
33   text-align: center;
34 }
35
36 tr:hover {
37   background-color: #fff9c4;
38 }
39
40 .border-b {
41   border-bottom: 2px solid #000;
42 }
43 }
```

```
ng-services-demo > src > app > ts app > ts app > @ngclient
1 import { Component, signal } from '@angular/core';
2 import { RouterOutlet } from '@angular/router';
3 import { Employee } from './employees';
4 import { Products } from './products';
5
6 @Component({
7   selector: 'app-root',
8   imports: [RouterOutlet],
9   templateUrl: './app.html',
10  styleUrls: ['./app.css'],
11 })
12 export class App {
13   protected readonly title = signal('ng-services-demo');
14
15   public employees: {
16     id: number;
17     firstname: string;
18     lastname: string;
19     email: string;
20   }[] = [];
21
22   public products: {
23     id: string;
24     name: string;
25     description: string;
26     price: string;
27   }[] = [];
28
29   constructor() {
30     private employeesService: Employee;
31     private productsService: Products;
32   }
33
34   ngOnInit() {
35     this.employees = this.employeesService.getEmployees();
36     this.products = this.productsService.getProducts();
37   }
38
39   }
40
41 }
42 }
```

```
ng-services-demo > src > app > app.html U
1 <h2>EMPLOYEES LIST</h2>
2 <table>
3 <tr>
4 <th>ID</th>
5 <th>FIRST NAME</th>
6 <th>LASTNAME</th>
7 <th>EMAIL</th>
8 </tr>
9 <tr>
10 <td class="border-b">
11 <td class="py-2 px-4 text-center">{{ employee.id }}</td>
12 <td class="py-2 px-4 text-center">{{ employee.firstname }}</td>
13 <td class="py-2 px-4 text-center">{{ employee.lastname }}</td>
14 <td class="py-2 px-4 text-center">{{ employee.email }}</td>
15 </tr>
16 </table>
17
18 <h2>PRODUCT LIST</h2>
19 <table>
20 <tr>
21 <th>PRODUCT ID</th>
22 <th>PRODUCT NAME</th>
23 <th>DESCRIPTION</th>
24 <th>PRICE</th>
25 </tr>
26 <tr>
27 <td class="border-b">
28 <td class="py-2 px-4 text-center">{{ product.id }}</td>
29 <td class="py-2 px-4 text-center">{{ product.name }}</td>
30 <td class="py-2 px-4 text-center">{{ product.description }}</td>
31 <td class="py-2 px-4 text-center">{{ product.price }}</td>
32 </tr>
33 </table>
34
35 <router-outlet />
```

```
ng-services-demo > src > app > ts products U
1 import { Injectable } from '@angular/core';
2
3 @Injectable({
4   providedIn: 'root',
5 })
6 export class Products {
7   getProducts() {
8     return [
9       {
10        id: 'P-101',
11        name: 'Logitech Mouse',
12        description: '6 Button Mechanical Mouse',
13        price: '899.00',
14      },
15       {
16        id: 'P-102',
17        name: 'JBL BT Speaker',
18        description: 'Waterproof Radio 360 Surround',
19        price: '1,099.00',
20      },
21       {
22        id: 'P-103',
23        name: 'Mechanical Keyboard',
24        description: 'Hot-swappable RGB Backlit',
25        price: '2,395.00',
26      },
27       {
28        id: 'P-104',
29        name: 'Oculus Meta',
30        description: 'All-in-one Gaming Headset',
31        price: '22,450.00',
32      },
33     ];
34   }
35 }
36 }
```

```
ng-services-demo > src > app > ts employees U
1 import { Injectable } from '@angular/core';
2
3 @Injectable({
4   providedIn: 'root',
5 })
6 export class Employee {
7   getEmployees() {
8     return [
9       {
10        id: 101,
11        firstname: 'Joseph',
12        lastname: 'Dizon',
13        email: 'jdizon@hau.edu.ph',
14      },
15       {
16        id: 102,
17        firstname: 'James',
18        lastname: 'Alienza',
19        email: 'jalienza@hau.edu.ph',
20      },
21       {
22        id: 103,
23        firstname: 'John',
24        lastname: 'Cena',
25        email: 'jcena@hau.edu.ph',
26      },
27       {
28        id: 104,
29        firstname: 'Robert',
30        lastname: 'Quintana',
31        email: 'rquintana@hau.edu.ph',
32      },
33       {
34        id: 105,
35        firstname: 'Kimberly',
36        lastname: 'Puno',
37        email: 'kpuno@hau.edu.ph',
38      },
39     ];
40   }
41 }
42 }
```

REFLECTION

This activity helped me understand how Angular services make it easier to share data across components. At first, the employee and product lists were only visible in one place, but using services allowed them to be reused anywhere in the app. I learned how dependency injection centralizes data management, which keeps the project organized and scalable. Overall, the task showed me the value of modular design and how services improve maintainability in Angular applications.

GITHUB LINK:

<https://github.com/kmbrly-02/midterms.git>