# Day 21 Angular Communication Assignment - README

This project implements the Day 21 Angular Communication assignment using the Standalone Component approach in Angular.

It demonstrates parent-to-child communication using @Input() and child-to-parent communication using @Output() and EventEmitter.

Application Name: dashProd

#### Components:

- 1. App (Root Component)
- 2. Dashboard (Parent Component)
- 3. ProductDetails (Child Component)

#### Communication Flow:

- Dashboard displays a list of products.
- When a user selects a product, its details are passed to ProductDetails via @Input().
- ProductDetails allows the user to enter feedback.
- When submitted, feedback is emitted via @Output() to the Dashboard, which stores and displays it.

## Folder Structure:

src/

# ??? app/

- ? ??? app.ts (Root standalone component)
- ? ??? app.html
- ? ??? dashboard/
- ? ??? dashboard.ts
- ? ??? dashboard.html
- ? ??? dashboard.css
- ? ??? product-details/
- ? ??? product-details.ts
- ? ??? product-details.html
- ? ??? product-details.css

## How to Run:

- 1. Ensure Angular CLI is installed: npm install -g @angular/cli
- 2. Create a new Angular project: ng new dashProd --standalone
- 3. Replace the generated files with the provided assignment files.
- 4. Run the application: ng serve
- 5. Open http://localhost:4200 in a browser.

# Technologies Used:

- Angular (Standalone Components)
- HTML, CSS
- TypeScript

## Key Angular Features Demonstrated:

- @Input() for parent-to-child communication
- @Output() + EventEmitter for child-to-parent communication
- \*nglf and \*ngFor structural directives
- FormsModule for two-way binding with [(ngModel)]

Main Files:

```
app.ts:
-----
import { Component, signal } from '@angular/core';
import { RouterOutlet } from '@angular/router';
import { Dashboard } from './dashboard/dashboard';

@Component({
    selector: 'app-root',
    standalone: true,
    imports: [RouterOutlet, Dashboard],
    templateUrl: './app.html',
    styleUrls: ['./app.css']
})
```

```
export class App {
 protected readonly title = signal('dashProd');
}
app.html:
<app-dashboard></app-dashboard>
dashboard.ts:
import { CommonModule } from '@angular/common';
import { Component } from '@angular/core';
import { ProductDetails } from '../product-details/product-details';
@Component({
 selector: 'app-dashboard',
 standalone: true,
 imports: [CommonModule, ProductDetails],
 templateUrl: './dashboard.html',
 styleUrls: ['./dashboard.css']
})
export class Dashboard {
 products = [
  { name: 'Laptop', price: 50000 },
  { name: 'Mobile', price: 40000 },
  { name: 'Tablet', price: 35000 }
 ];
 selectedProduct: any = null;
 feedbackList: string[] = [];
 selectProduct(product: any) {
  this.selectedProduct = product;
```

```
}
 receiveFeedback(feedback: string) {
  this.feedbackList.push(feedback);
 }
}
dashboard.html:
-----
<h2>Product List</h2>
*ngFor="let product of products">
  {{product.name}} - ${{product.price}}
  <button (click)="selectProduct(product)">View More</button>
 <app-product-details
 *nglf="selectedProduct"
 [product]="selectedProduct"
 (feedbackEvent)="receiveFeedback($event)">
</app-product-details>
<h3>Feedback Received:</h3>
*ngFor="let fb of feedbackList">{{fb}}
product-details.ts:
import { CommonModule } from '@angular/common';
import { Component, EventEmitter, Input, Output } from '@angular/core';
import { FormsModule } from '@angular/forms';
```

```
@Component({
 selector: 'app-product-details',
 standalone: true,
 imports: [CommonModule, FormsModule],
 templateUrl: './product-details.html',
 styleUrls: ['./product-details.css']
})
export class ProductDetails {
 @Input() product: any;
 @Output() feedbackEvent = new EventEmitter<string>();
 feedbackText: string = ";
 sendFeedBack() {
  if (this.feedbackText.trim()) {
   this.feedbackEvent.emit(`${this.product.name}:${this.feedbackText}`);
   this.feedbackText = ";
  }
 }
}
product-details.html:
<h3>Product Details</h3>
<strong>Name:</strong> {{ product.name }}
<strong>Price:</strong> {{ product.price }}
<textarea [(ngModel)]="feedbackText" placeholder="Enter your feedback"></textarea>
<br>
<button (click)="sendFeedBack()">Send Feedback</button>
```