



FACULTAD DE
POSTGRADO
SANTA CRUZ

PRACTICA 2

DESARROLLO FRONTEND y FRAMEWORKS JAVASCRIPT

--- ROMAN FRANCO VALERO CALLE ---

PROYECTO 1

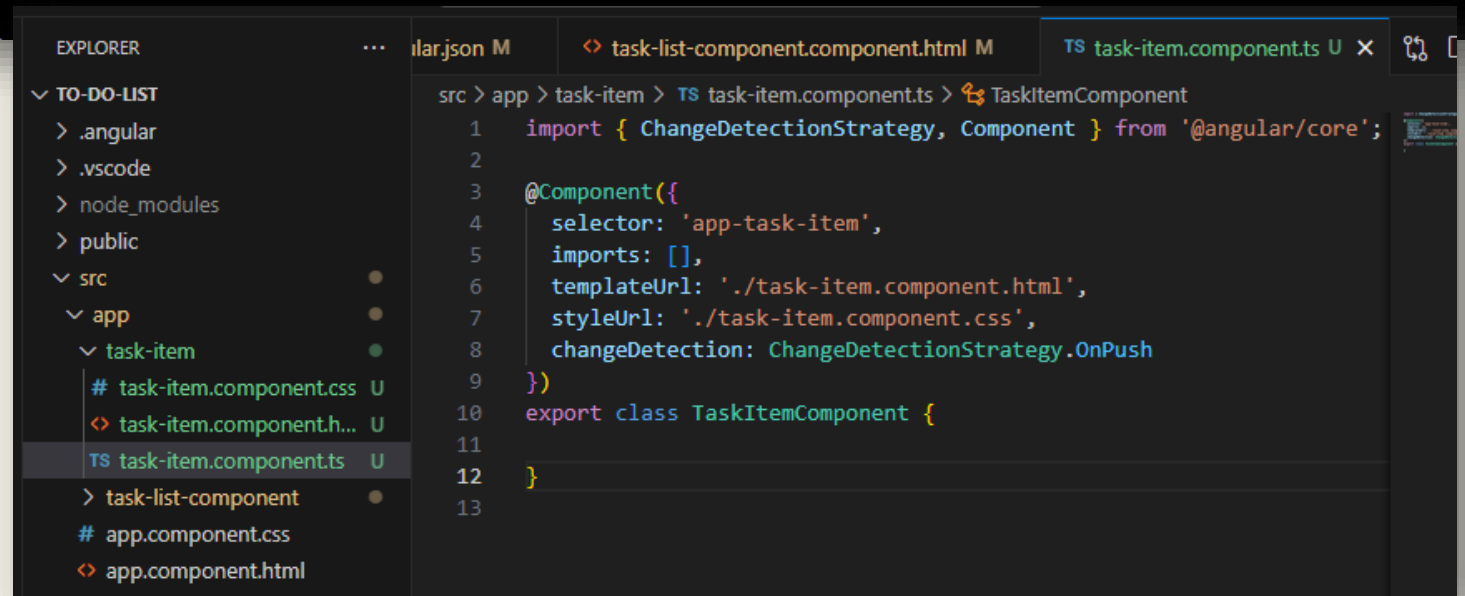
Gestor de Tareas

Clase 2: Componentes y Comunicación (Input/Output)

- Crear un componente `TaskItemComponent` para representar cada tarea.
- Implementar `@Input` para pasar datos de una tarea al componente hijo.
- Usar `@Output` para emitir eventos como "marcar como completada" hacia el componente padre

Creación de componente TaskItem

```
roman@Sistemas1:/mnt/c/Users/siste/OneDrive/Documentos/terminacion/practicang-dev/to-do-list$ ng generate component task-item
Node.js version v23.11.0 detected.
Odd numbered Node.js versions will not enter LTS status and should not be used for production. For more information, please see https://nodejs.org/en/about/previous-releases/.
CREATE src/app/task-item/task-item.component.css (0 bytes)
CREATE src/app/task-item/task-item.component.html (24 bytes)
CREATE src/app/task-item/task-item.component.ts (301 bytes)
```



The screenshot shows the VS Code interface. On the left, the Explorer sidebar displays the project structure: TO-DO-LIST, .angular, .vscode, node_modules, public, src, app, and task-item. The task-item folder is expanded, showing task-item.component.css, task-item.component.html, and task-item.component.ts. The main editor area shows the task-item.component.ts file with the following code:

```
src > app > task-item > TS task-item.component.ts > TaskItemComponent
1  import { ChangeDetectionStrategy, Component } from '@angular/core';
2
3  @Component({
4    selector: 'app-task-item',
5    imports: [],
6    templateUrl: './task-item.component.html',
7    styleUrls: ['./task-item.component.css'],
8    changeDetection: ChangeDetectionStrategy.OnPush
9  })
10 export class TaskItemComponent {
11
12 }
13
```

Vamos a empezar organizar las carpetas!

Edición Componente hijo

The screenshot shows an IDE with the Angular CLI Server running. The project structure on the left includes a 'to-do-list' project with a 'task-item' component. The main editor displays the 'task-item.component.ts' file, which defines the 'TaskItemComponent' class. The component has three inputs: 'id' (number), 'title' (string), and 'time' (string). It also has an output 'checkededgg' of type 'EventEmitter<any>'. The 'updatedd' method logs the message 'entra' and emits the 'checked' status. The 'task-item.component.html' file is also visible, showing the component's template. The template uses a 'mat-card' with a 'tarjeta' class, containing a 'mat-card-header', a 'mat-card-content' with a 'tarjeta-contenido' class, and a 'mat-card-actions' with a 'tarjeta-acciones' class. The 'mat-card-content' contains a 'div' with a 'tarjeta-letras' class, which displays the 'title' and 'time' inputs. The 'mat-card-actions' contains two buttons: one with an 'edit' icon and one with a 'delete' icon. A 'mat-checkbox' is also present, with its 'checked' status bound to the 'complete' input and its 'change' event bound to the 'updatedd' method.

```
import {ChangeDetectionStrategy, Component, EventEmitter, input, Input, Output} from '@angular/core';
import {MatSlideToggleModule} from '@angular/material/slide-toggle';
import {MatCard, MatCardActions, MatCardContent, MatCardHeader} from '@angular/material/card';
import {MatIcon} from '@angular/material/icon';
import {MatButtonModule} from '@angular/material/button';
import {MatCheckboxModule} from '@angular/material/checkbox';

@Component({
  selector: 'app-task-item',
  imports: [MatSlideToggleModule, MatCard, MatCardHeader, MatCardContent, MatCardActions, MatIcon, MatButtonModule, MatCheckboxModule],
  templateUrl: './task-item.component.html',
  styleUrls: ['./task-item.component.css'],
  changeDetection: ChangeDetectionStrategy.OnPush
})
export class TaskItemComponent {
  @Input() id: number = 0;
  @Input() title: string = '';
  @Input() time: string = '';
  @Input() complete: boolean = false;

  @Output() checkededgg: EventEmitter<any> = new EventEmitter<any>();

  updatedd(checked: boolean, id: number): void {
    console.log( message: "entra")
    this.checkededgg.emit({id: id, checked: checked});
  }
}
```

```
<mat-card class="tarjeta">
  <mat-card-header></mat-card-header>
  <mat-card-content class="tarjeta-contenido">
    <div class="tarjeta-letras">
      <p>{{ title }}</p>
      <small>{{ time }}</small>
    </div>
    <mat-card-actions class="tarjeta-acciones">
      <button mat-mini-fab aria-label="">
        <mat-icon aria-hidden="false" aria-label="" fontIcon="edit"></mat-icon>
      </button>
      <button mat-mini-fab aria-label="">
        <mat-icon>delete</mat-icon>
      </button>
      <mat-checkbox [checked]="complete" (change)="updatedd($event.checked, id)"></mat-checkbox>
    </mat-card-actions>
  </mat-card-content>
</mat-card>
```

Edición Componente Padre

The screenshot shows an IDE with the following structure:

- Project:** to-do-list
- src/app:**
 - components
 - task-item
 - task-list-component

task-list-component.component.html

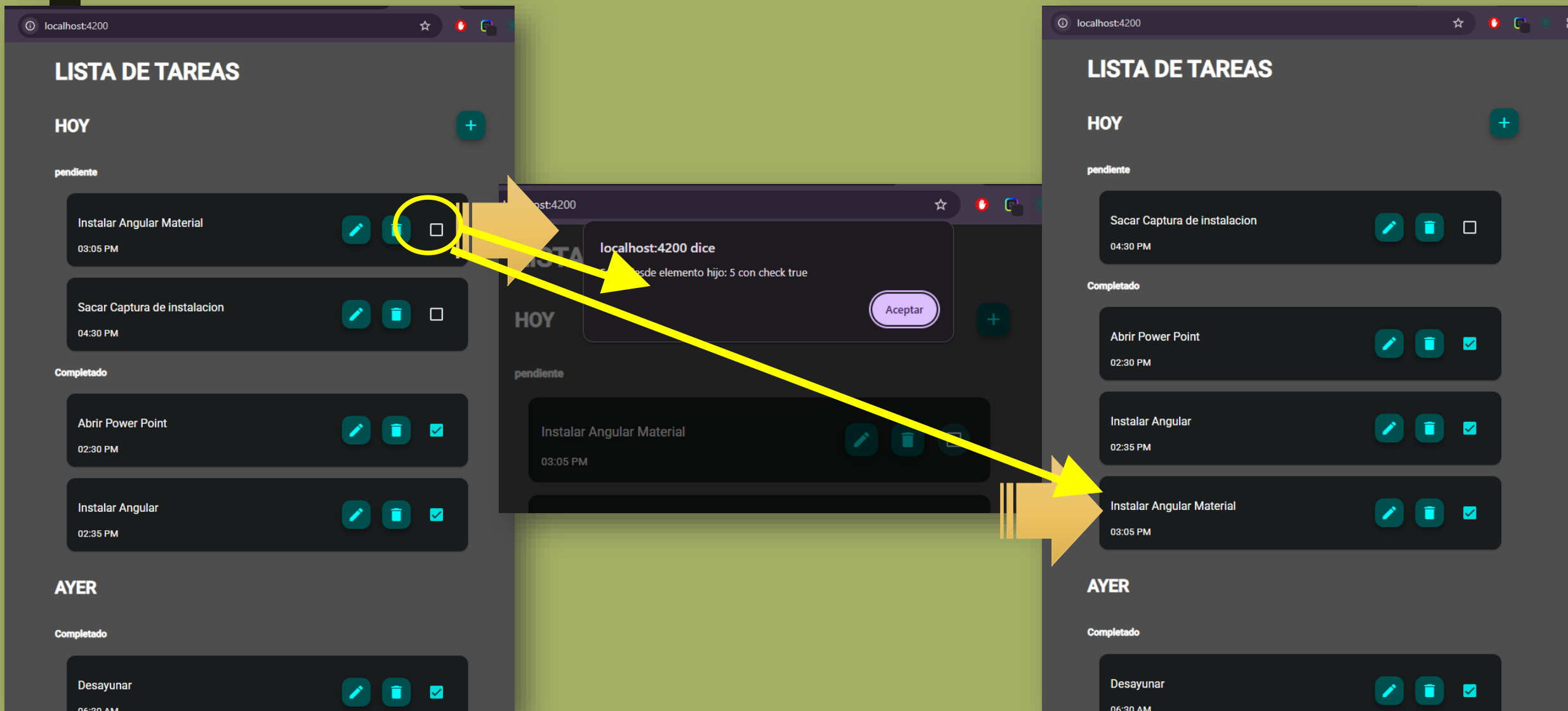
```
<h1>LISTA DE TAREAS</h1>
<div>
  <div class="titulo">
    <h2>HOY</h2>
    <button mat-mini-fab aria-label="">
      <mat-icon fontIcon="add"></mat-icon>
    </button>
  </div>
  <h5>pendiente</h5>
  @for (item of tasksTodayNo; track item.title) {
    <app-task-item [id]="item.id" [title]="item.title" [complete]="item.complete" [time]="item.time"></app-task-item>
  } @empty {
    <small><i>no hay pendientes</i></small>
  }
  <h5>Completado</h5>
  @for (item of tasksTodayOk; track item.title) {
    <app-task-item [id]="item.id" [title]="item.title" [complete]="item.complete" [time]="item.time"></app-task-item>
  } @empty {
    <small><i>no hay completados</i></small>
  }
</div>
<div class="titulo">
  <h2>AYER</h2>
</div>
@if(taskYesterdayNo.length > 0){
  <h5>pendiente</h5>
  @for (item of taskYesterdayNo; track item.title) {
    <app-task-item [id]="item.id" [title]="item.title" [complete]="item.complete" [time]="item.time"></app-task-item>
  }
  <h5>Completado</h5>
  @for (item of taskYesterdayOk; track item.title) {
    <app-task-item [id]="item.id" [title]="item.title" [complete]="item.complete" [time]="item.time"></app-task-item>
  } @empty {
    <small><i>no hay completados</i></small>
  }
}</div>
```

task-list-component.component.ts

```
import { TaskItemComponent } from '../task-item/task-item.component';
import { Component } from '@angular/core';
import { MatSlideToggleModule } from '@angular/material/slide-toggle';
import { MatIcon } from '@angular/material/icon';
import { MatButtonModule } from '@angular/material/button';
@Component({
  selector: 'app-task-list-component',
  imports: [MatSlideToggleModule, MatIcon, MatButtonModule, TaskItemComponent],
  templateUrl: './task-list-component.component.html',
  styleUrls: ['./task-list-component.component.css']
})
export class TaskListComponentComponent {
  tasksToday: any = [
    {id: 7, title: 'Abrir Power Point', date: new Date(), time: "02:30 PM", complete: true},
    {id: 6, title: 'Instalar Angular', date: new Date(), time: "02:35 PM", complete: true},
    {id: 5, title: 'Instalar Angular Material', date: new Date(), time: "03:05 PM", complete: false},
    {id: 4, title: 'Sacar Captura de instalacion', date: new Date(), time: "04:30 PM", complete: false},
  ];
  tasksTodayOk :any = this.tasksToday?.filter((it: any) :boolean => it.complete == true);
  tasksTodayNo :any = this.tasksToday?.filter((it: any) :boolean => it.complete == false);
  taskYesterdays: any = [
    {id: 3, title: 'Desayunar', date: '2025-05-01', time: "06:30 AM", complete: true},
    {id: 2, title: 'Asearse', date: '2025-05-01', time: "06:55 AM", complete: true},
    {id: 1, title: 'Ir al trabajo', date: '2025-05-01', time: "07:15 AM", complete: true},
  ];
  taskYesterdayOk :any = this.taskYesterdays?.filter((it: any) :boolean => it.complete == true);
  taskYesterdayNo :any = this.taskYesterdays?.filter((it: any) :boolean => it.complete == false);
  onCheckedTask(algo: any) :void {
    //const data = algo ? JSON.parse(algo) : [];
    alert("Envia desde elemento hijo: " + algo.id + " con check " + algo.checked);
    // modificamos la lista maestra
    this.tasksToday = this.tasksToday?.filter(function (it: any) :any {
      if(it.id == algo.id){
        it.complete = algo.checked;
      }
    });
    return it;
  };
  // actualizamos la lista
  this.tasksTodayOk = this.tasksToday?.filter((it: any) :boolean => it.complete == true);
  this.tasksTodayNo = this.tasksToday?.filter((it: any) :boolean => it.complete == false);
}
```

resultado

Se mueve automáticamente jajajaja



Usando BUN como manejador de paquetes



```
Sistemas1@Sistemas1 MINGW64 ~/OneDrive/Documentos/terminacion/practic-as-ng-dev/to-do-list [(7fe86a5...)]
$ ng config -g cli.packageManager bun
Would you like to enable autocompletion? This will set up your terminal so pressing TAB while typing
Angular CLI commands will show possible options and autocomplete arguments. (Enabling autocompletion
will modify configuration files in your home directory.) Yes
Appended 'source <(ng completion script)>' to 'C:\Users\siste\.bashrc'. Restart your terminal or run the
following to autocomplete 'ng' commands:

    source <(ng completion script)

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.dev/cli/analytics.

No
Global setting: not set
Local setting: disabled
Effective status: disabled
```

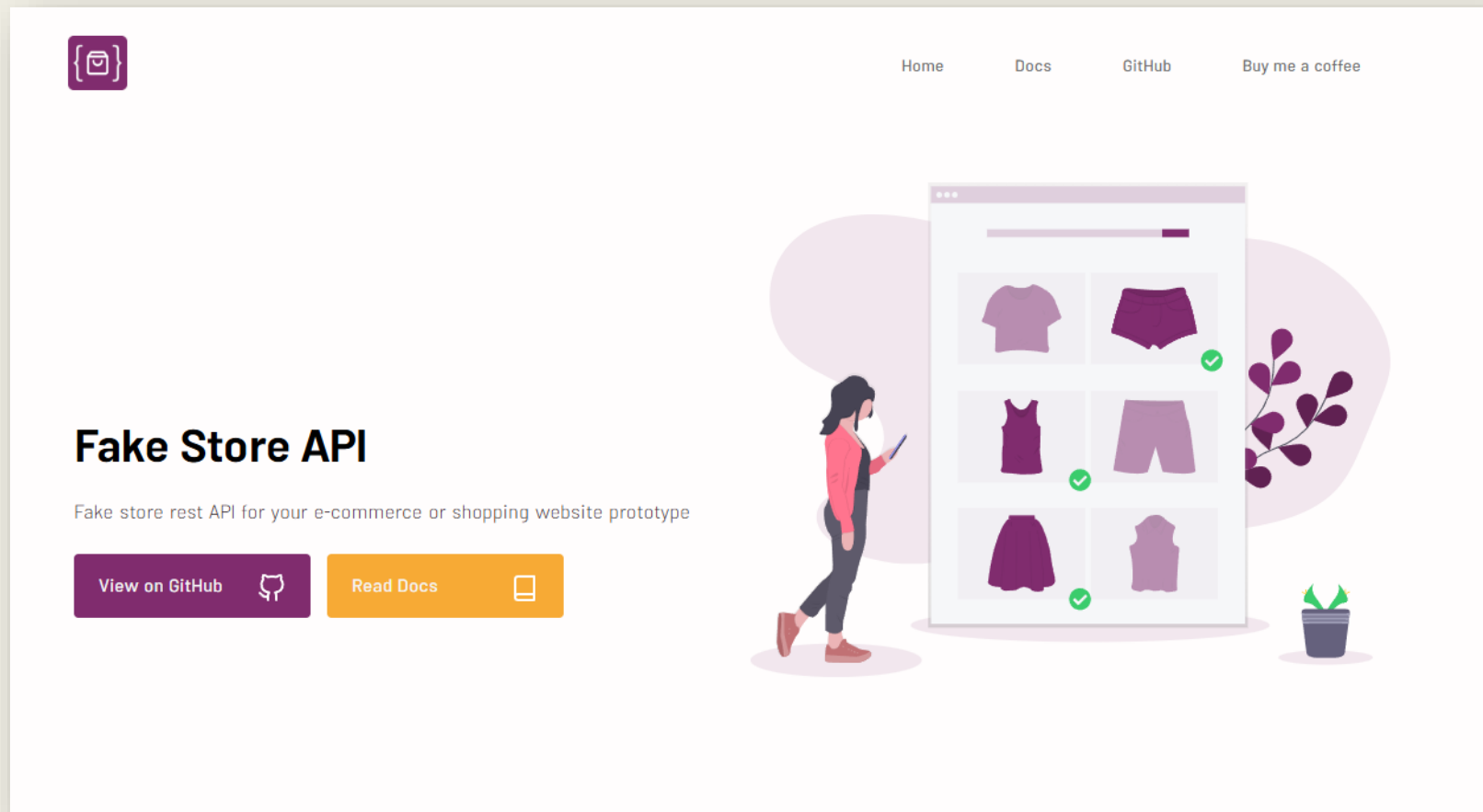
PROYECTO 2

Catálogo de productos

Clase 2: Componentes y Comunicación

- Crear un componente `ProductCardComponent` para mostrar detalles individuales de un producto.
- Implementar `@Input` para pasar datos al componente hijo.
- Crear un botón de "Agregar al carrito" con eventos (`@Output`).

Usando datos de FAKE STORE API



Componente Padre

```
TS product-list.component.ts U X  <> product-card.component.html U  <> app.component.html M  <> product-li...
src > app > components > product-list-component > TS product-list.component.ts > ProductListComponent
10 |   styleUrls: ['./product-list.component.css']
11 | })
12 | export class ProductListComponent {
13 |   listProducts: any = [{
14 |     "id": 1,
15 |     "title": "Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops",
16 |     "price": 109.95,
17 |     "description": "Your perfect pack for everyday use and walks in the forest. Stash your gear",
18 |     "category": "men's clothing",
19 |     "image": "https://fakestoreapi.com/img/81fPKd-2AYL._AC_SL1500_.jpg",
20 |     "rating": {"rate": 3.9, "count": 120}
21 |   },
22 |   { ...
30 |   },
31 |   { ...
39 |   }, { ...
47 |   }, { ...
55 |   }, { ...
63 |   }, { ...
71 |   }, { ...
79 |   }, { ...
87 |   }, { ...
95 |   }, { ...
103 |   }, { ...
111 |   }, { ...
119 |   }, { ...
127 |   }, { ...
135 |   }, { ...
143 |   }, { ...
151 |   }, { ...
159 |   }, { ...
167 |   }, { ...
174 |     "rating": {"rate": 3.6, "count": 145}}
175 | ];
176 |
177 | cartItemAdd(item: any) {
178 |   alert("Se agregó el el producto " + item.title + " al carrito de compras");
179 | }
180 | }
```

TS product-list.component.ts U

<> product-list.component.html U X

```
src > app > components > product-list-component > <> product-list.component.html > div.lista-tarjetas
Go to component
1 | <h1>LISTA DE PRODUCTOS</h1>
2 |
3 | <div class="lista-tarjetas">
4 |   @for (item of listProducts; track item.id) {
5 |     <app-product-card [item]="item" class="tarjeta"></app-product-card>
6 |   }
7 | </div>
```

Componente Hijo

```
TS product-card.component.ts U X TS product-list.component.ts U <> product-card.component.html U <> app.component.html M <> prod
src > app > components > product-card > TS product-card.component.ts > ProductCardComponent > addedToCart
1 import { Component, EventEmitter, Input, Output } from '@angular/core';
2 import { MatSlideToggleModule } from '@angular/material/slide-toggle';
3 import { MatCard, MatCardContent, MatCardFooter } from '@angular/material/card';
4 import { MatIcon } from '@angular/material/icon';
5 import { MatButtonModule } from '@angular/material/button';
6 import { RouterModule } from '@angular/router';
7
8 @Component({
9   selector: 'app-product-card',
10  imports: [MatSlideToggleModule, MatCard, MatCardContent, MatIcon, MatButtonModule, MatCardFooter,
11  templateUrl: './product-card.component.html',
12  styleUrls: ['./product-card.component.css']
13 })
14 export class ProductCardComponent {
15   @Input() item: any;
16
17   @Output() addedToCart = new EventEmitter<any>();
18
19   addToCart(item: any){
20     this.addToCart.emit(item);
21   }
22 }
23
```

```
<> product-card.component.html U X TS product-card.component.ts U TS product-list.component.ts U
src > app > components > product-card > <> product-card.component.html > mat-card.tarjeta >
Go to component
1 <mat-card class="tarjeta">
2   <mat-card-content class="tarjeta-contenido">
3     <div class="tarjeta-imagen">
4       
5     </div>
6     <div>
7       <p>{{ item.title }}</p>
8     </div>
9   </mat-card-content>
10  <mat-card-footer class="tarjeta-pie">
11    <div class="tarjeta-pie-letras">
12      <div>
13        {{ item.category }}
14      </div>
15      <div>
16        $ {{ item.price }}
17      </div>
18    </div>
19    <div class="tarjeta-pie-botones">
20      <button mat-flat-button aria-label="" (click)="addToCart(item)">
21        <mat-icon fontIcon="shopping_cart"></mat-icon>
22        Agregar
23      </button>
24    </div>
25    <!-- <a [routerLink]="['/details', item.id]" routerLinkActive="route
26  </mat-card-footer>
27 </mat-card>
```

resultado

LISTA DE PRODUCTOS



Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops

men's clothing \$ 109.95

 Agregar



Mens Casual Premium Slim Fit T-Shirts

men's clothing \$ 22.3

 Agregar



Mens Cotton Jacket

men's clothing \$ 55.99

 Agregar



Mens Casual Slim Fit

men's clothing \$ 15.99

 Agregar



John Hardy Women's Legends Naga Gold & Silver Dragon Station Chain Bracelet

jewelery \$ 695

 Agregar



Solid Gold Petite Micropave

jewelery \$ 168

 Agregar



White Gold Plated Princess

jewelery \$ 9.99

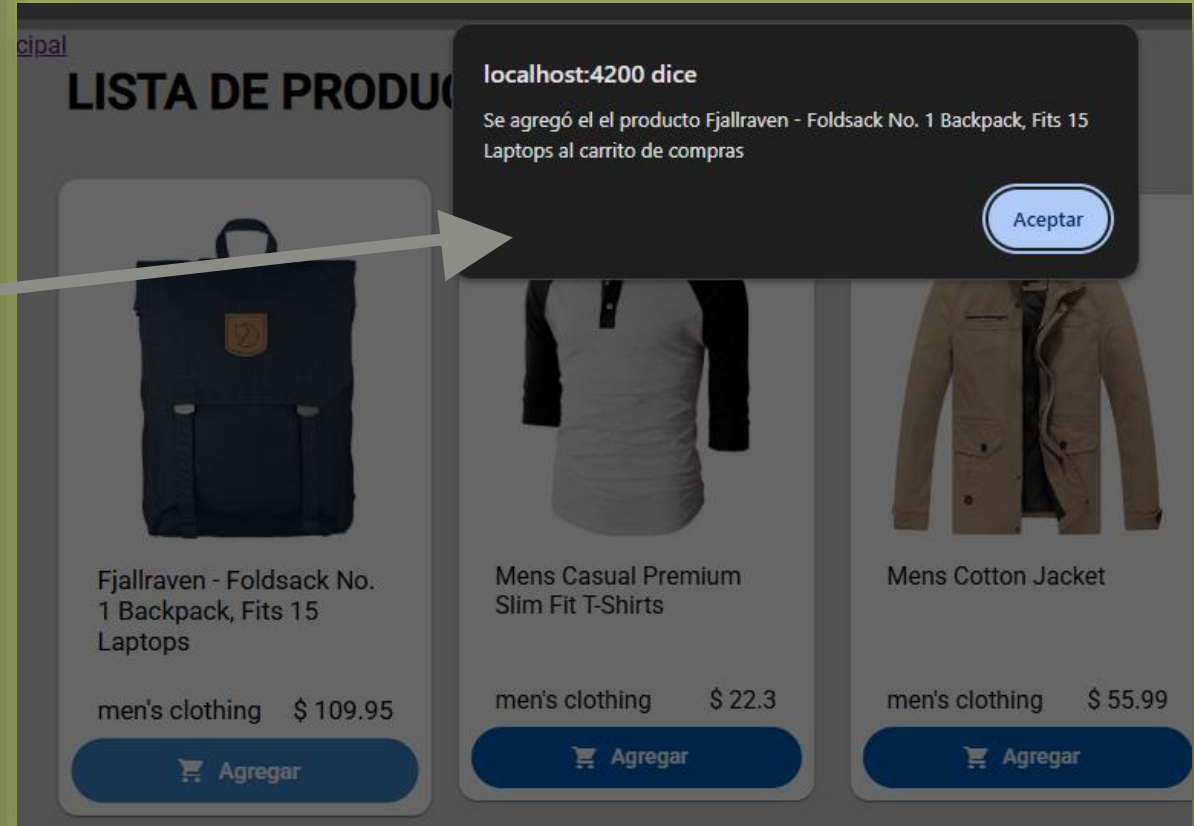
 Agregar



Pierced Owl Rose Gold Plated Stainless Steel Double

jewelery \$ 10.99

 Agregar



PROYECTO 3

Blog Personal

Clase 2: Componentes y Comunicación

- Crear un componente `PostCardComponent` para representar una publicación.
- Implementar `@Input` para pasar datos al componente hijo.
- Crear un evento `@Output` para eliminar publicaciones desde la tarjeta.

Componente Padre

```

t-card.component.html  post-list-component.component.ts  x  post-list-co
import {Component} from '@angular/core';
import {MatSlideToggleModule} from '@angular/material/slide-toggle';
import {MatIcon} from '@angular/material/icon';
import {MatButtonModule} from '@angular/material/button';
import {MatFormFieldModule} from '@angular/material/form-field';
import {MatIconModule} from '@angular/material/icon';
import {MatInputModule} from '@angular/material/input';
import {PostCardComponent} from '../post-card/post-card.component';

@Component({
  selector: 'app-post-list-component',
  imports: [
    MatSlideToggleModule,
    MatIcon,
    MatButtonModule,
    PostCardComponent,
    MatFormFieldModule,
    MatInputModule,
    MatIconModule
  ],
  templateUrl: '../post-list-component.component.html',
  styleUrls: '../post-list-component.component.css'
})
export class PostListComponent {
  response: any = {"status": "ok"...};
  postList: any = this.response.articles;

  onDeletePost(item: any) {
    console.log(item);
    alert(item.title);
  }
}

```

```

post-card.component.html  post-list-component.component.html  x
1  <div class="titulo">
2    <h1>Blog de Noticias</h1>
3  </div>
4
5  <div class="lista-tarjetas">
6    @for (item of postList; track item.source.id) {
7      <app-post-card [item]="item" (onDeletePost)="onDeletePost($event)"></app-post-card>
8    }
9    <h1> Comentarios </h1>
10   <div class="comentarios">
11     <div class="mi-foto">
12       
14     </div>
15     <div class="comentario-x">
16       <p>Un comentario de producto, también conocido como review o reseña, es una evaluación escrita por un consumidor
17       sobre un producto o servicio. Estos comentarios ofrecen información valiosa sobre las experiencias de otros
18       compradores, ayudando a otros potenciales compradores a tomar decisiones informadas. </p>
19     </div>
20   </div>
21   <div class="tu-comentario">
22     <mat-form-field appearance="outline" class="caja-comentario">
23       <mat-label>Publicar mi comentario</mat-label>
24       <input matInput placeholder="Mi comentario..." class="caja-comentario">
25       <!--<mat-icon matSuffix>sentiment_very_satisfied</mat-icon>-->
26       <!--<mat-hint>Hint</mat-hint>-->
27     </mat-form-field>
28     <button mat-fab aria-label="Example icon button with a delete icon">
29       <mat-icon>send</mat-icon>
30     </button>
31
32   </div>
33 </div>

```

Componente Hijo

```
post-card.component.ts  x  post-card.component.html  post-list-component.component.ts

import {Component, EventEmitter, Input, Output} from '@angular/core';
import {DatePipe} from "@angular/common";
import {MatCard, MatCardContent, MatCardFooter} from "@angular/material/card";
import {MatIcon} from '@angular/material/icon';
import {MatMiniFabButton} from '@angular/material/button';

@Component({
  selector: 'app-post-card',
  imports: [
    DatePipe,
    MatCard,
    MatCardContent,
    MatCardFooter,
    MatIcon,
    MatMiniFabButton
  ],
  templateUrl: './post-card.component.html',
  styleUrls: ['./post-card.component.css']
})
export class PostCardComponent {
  @Input() item: any;

  @Output() onDeletePost = new EventEmitter<any>();

  deletePost(item: any){
    this.onDeletePost.emit(item);
  }
}
```

```
post-card.component.html  x  post-list-component.component.html

1  <mat-card class="tarjeta">
2    <div class="tarjeta-cabeza">
3      <div class="aside-izq-imagen">
4        
5      </div>
6      <div class="aside-derecho">
7        <div class="aside-titulo">
8          <h1>{{ item.title }}</h1>
9        </div>
10       <div class="aside-texto">
11         <h2>
12           {{ item.description }}
13         </h2>
14         <h1>
15           {{ item.publishedAt|date }}
16         </h1>
17       </div>
18       Autor: {{ item.author }}
19     </div>
20   </div>
21 </mat-card>
22
23 <mat-card-content class="tarjeta-contenido">
24   <div class="tarjeta-descripcion-principal">
25     <div class="contenido-descripcion">
26     </div>
27     <p>{{ item.content }}</p>
28   </div>
29 </mat-card-content>
30 <mat-card-footer class="tarjeta-pie">
31   <div class="tarjeta-pie-botones">
32     <button mat-mini-fab aria-label="" >
33       <mat-icon aria-hidden="false" aria-label="" fontIcon="edit"></mat-icon>
34     </button>
35     <button mat-mini-fab aria-label="" (click)="deletePost(item)">
36       <mat-icon>delete</mat-icon>
37     </button>
38   </div>
39 </mat-card-footer>
40 </mat-card>
```


resultado

Blog de Noticias



La frenética semana de Trump en negociaciones de paz da una pista de lo que realmente quiere

Después de siete días de intensos intercambios diplomáticos, tenemos una idea más clara de la ideología global del presidente de Estados Unidos y de los límites de su arte de la acuerdo.

May 16, 2025

Autor: BBC News

La centralidad de Trump en la política exterior estadounidense también se ha hecho evidente esta semana. Esto es más que una simple obviedad. Se puso de manifiesto la falta de implicación de otras partes del gobierno estadounidense que... [+1043 chars]



Moodys rebaja la calificación crediticia de EE. UU. por el aumento la deuda

Moodys afirmó que las sucesivas administraciones estadounidenses no habían logrado revertir los crecientes déficits y los costos de los intereses.

May 16, 2025

Autor: BBC News

EE. UU. ha perdido su última calificación crediticia triple A otorgada por una importante agencia de calificación crediticia tras ser rebajada por Moodys, que alegó el aumento de la deuda federal en los últimos años. década. Al rebajar la calificación de EE. UU. a 'Aa1',... [+442 caracteres]



De Aberdeen a Penzance: Fin de la ruta ferroviaria directa más larga del Reino Unido

Los pasajeros disfrutaban del viaje de 1240 kilómetros de Aberdeen a Penzance por última vez. tiempo.

May 16, 2025

localhost:4200 dice

eliminar el ítem La frenética semana de Trump en negociaciones de paz da una pista de lo que realmente quiere

Aceptar

Trump
a una p

Después de siete días de intensos interca