2 Componentes

Los bloques de construcción de Angular.

2.1 Generación de components.

2.1.1 EL CLI y el Angular.json

```
{
    "schematics": {
        "@schematics/angular:component": {
            "changeDetection": "OnPush",
            "flat": true,
            "inlineTemplate": true,
            "inlineStyle": true,
            "skipTests": true
        }
    }
}
```

```
ng g c core/header
ng g c core/footer
```

2.2 Anatomía de un componente: plantillas y lógica.

```
@Component({
  selector: 'lab-root',
  standalone: true,
  imports: [HeaderComponent, FooterComponent],
  template: `
    <lab-header />
    <lab-footer />
  `,
  styles: [],
})
export class AppComponent {}
```

2.2.1 Plantillas para las vistas

```
npm start
```

```
<lab-header />
<p>Angular works!</p>
<router-outlet></router-outlet>
<lab-footer />
```

```html
<header>
  <nav>
    <a href=""> Activity Bookings </a>
  </nav>
</header>

<footer>
  <nav>
    <a [href]="" target="_blank"> © 2024 Alberto Basalo </a>
    <button>Accept Cookies</button>
  </nav>
</footer>
```

2.2.2 Propiedades y métodos

```html
<header>
  <nav>
    <a href=""> {{ title }} </a>
  </nav>
</header>
```

```ts
export class HeaderComponent {
  title = 'Activity Bookings';
}
```

```ts
export class FooterComponent {
  author = {
    name: 'Alberto Basalo',
    homepage: '<https://albertobasalo.dev>',
  };

  year = new Date().getFullYear();

  onAcceptClick() {
    console.log('Cookies accepted!');
  }
}
```

```html
<footer>
  <nav>
    <a [href]="author.homepage"> © {{ year }} {{ author.name }} </a>
    <button (click)="onAcceptClick()">Accept Cookies</button>
  </nav>
</footer>
```

2.3 Presentación de datos

2.3.1 Datos y transformación

```
ng g c bookings/bookings
```

`Domain` folder for DTO...

```typescript
@Component({
  selector: 'lab-bookings',
  standalone: true,
  changeDetection: ChangeDetectionStrategy.OnPush,
  styles: ``,
  imports: [CurrencyPipe, DatePipe, UpperCasePipe],
  template: `  `,
})
export class BookingsComponent {
  activity: Activity = {
    name: 'Paddle surf',
    location: 'Lake Leman at Lausanne',
    price: 100,
    date: new Date(2025, 7, 15),
    minParticipants: 4,
    maxParticipants: 10,
    status: 'published',
    id: 1,
    slug: 'paddle-surf',
    duration: 2,
    userId: 1,
  };
  currentParticipants = 3;
}
```

```html
<article>
  <header>
    <h2>{{ activity.name }}</h2>
    <div [class]="activity.status">
      <span>{{ activity.location }}</span>
      <span>{{ activity.price | currency }}</span>
      <span>{{ activity.date | date }}</span>
      <span>{{ activity.status | uppercase }} </span>
    </div>
  </header>
  <main>
    <p>Participants: {{ currentParticipants }}</p>
  </main>
  <footer>
    <button>Book now!</button>
    <button>Cancel</button>
  </footer>
```

```
</article>
```

2.3.2 Estilos

```
npm install @picocss/pico
```

```
"styles": ["node_modules/@picocss/pico/css/pico.min.css", "src/styles.css"],
```

```css
.draft {
  color: violet;
  font-style: italic;
}
.published {
  color: limegreen;
}
.confirmed {
  color: green;
}
.sold-out {
  color: green;
  font-style: italic;
}
.done {
  color: orange;
  font-style: italic;
}
.cancelled {
  color: red;
  font-style: italic;
}
```