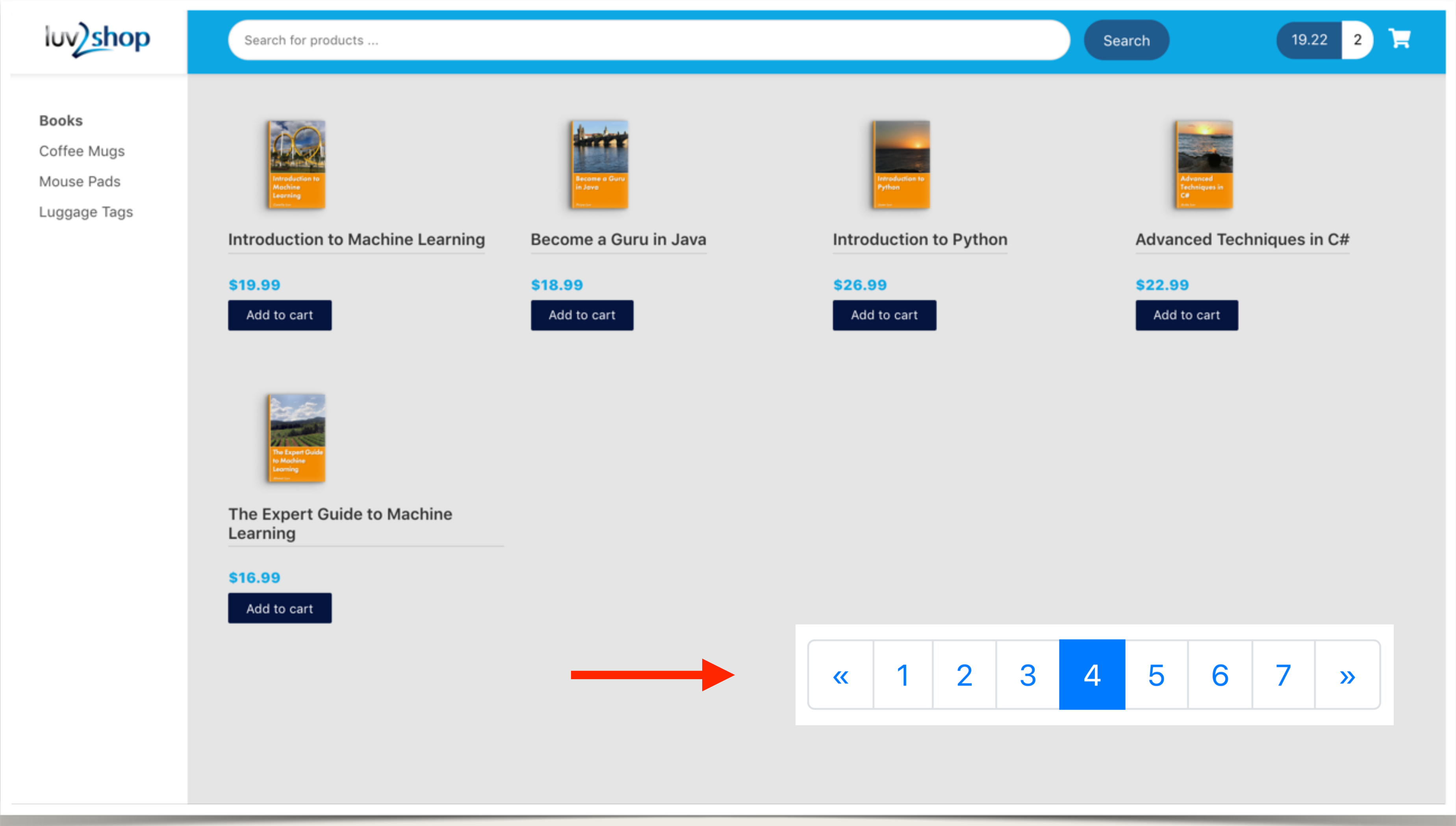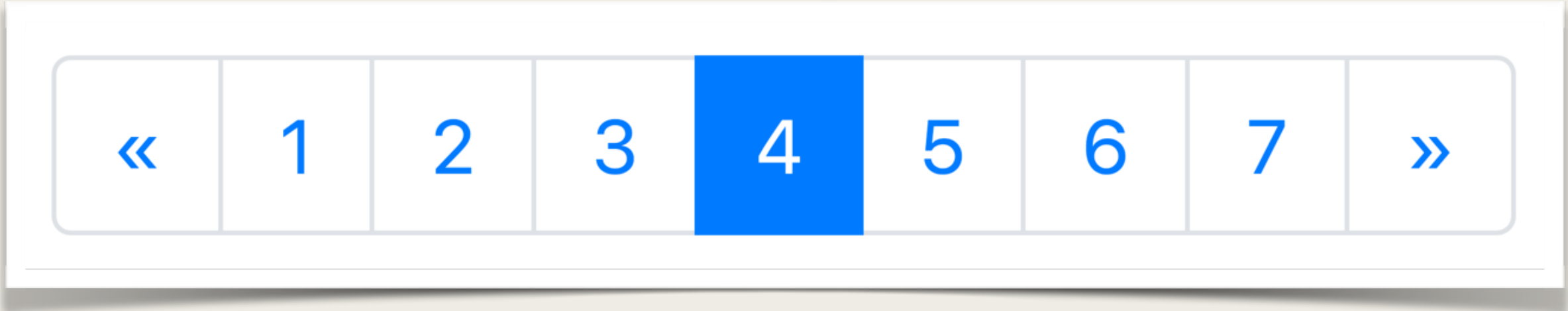# Step 5: Enhance HTML template to use ng-bootstrap pagination component

Step 5: Enhance HTML template to use ng-bootstrap pagination component

Parameter	Purpose
page	The page number to access. 1-based ... defaults to 1
pageSize	The size of the page (items per page). Defaults to 10
collectionSize	The total number of items
pageChange	Event handler for page change events

https://ng-bootstrap.github.io/

« 1 2 3 4 5 6 7 »

Step 5: Enhance HTML template to use ng-bootstrap pagination component

File: product-list-grid.component.html

```html
<div class="footer-pagination">
...
    <ngb-pagination [(page)]="thePageNumber"
                    [pageSize]="thePageSize"
                    [collectionSize]="theTotalElements"
                    (pageChange)="listProducts()">
    </ngb-pagination>
...
</div>
```

Component will generate
links for pagination

« 1 2 3 4 5 6 7 »

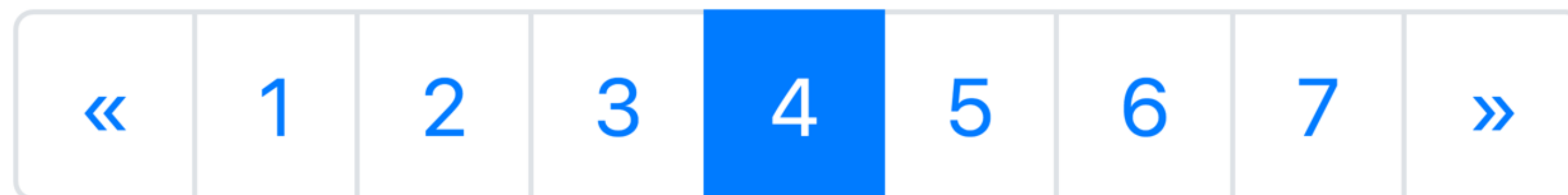# Step 5: Enhance HTML template to use ng-bootstrap pagination component

File: product-list-grid.component.html

```html
<div class="footer-pagination">
...
    <ngb-pagination [(page)]="thePageNumber"



    </ngb-pagination>
...
</div>
```

Special Angular syntax for

Two-Way Data Binding

known as "banana in a box"

Step 5: Enhance HTML template to use ng-bootstrap pagination component

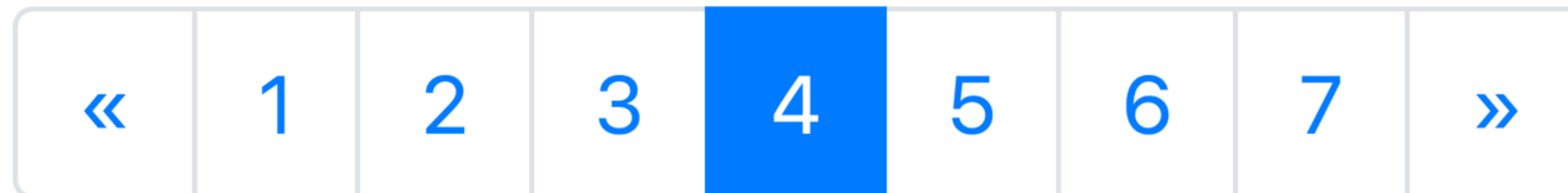**Two-Way Data Binding**

File: product-list-grid.component.html

```html
<div class="footer-pagination">
...
    <ngb-pagination [(page)]="thePageNumber"



    </ngb-pagination>
...
</div>
```

File: product-list.component.ts

```typescript
export class ProductListComponent implements OnInit {

    // new properties for pagination
    thePageNumber: number;
    thePageSize: number;
    theTotalElements: number;
    ...
}
```

| « | 1 | 2 | 3 | 4 | 5 | 6 | 7 | » |

luv2code

Step 5: Enhance HTML template to use ng-bootstrap pagination component

File: product-list-grid.component.html

```html
<div class="footer-pagination">
...
    <ngb-pagination [(page)]="thePageNumber"



    </ngb-pagination>
...
</div>
```

File: product-list.component.ts

```typescript
export class ProductListComponent implements OnInit {

    // new properties for pagination
    thePageNumber: number;
    thePageSize: number;
    theTotalElements: number;
    ...
}
```
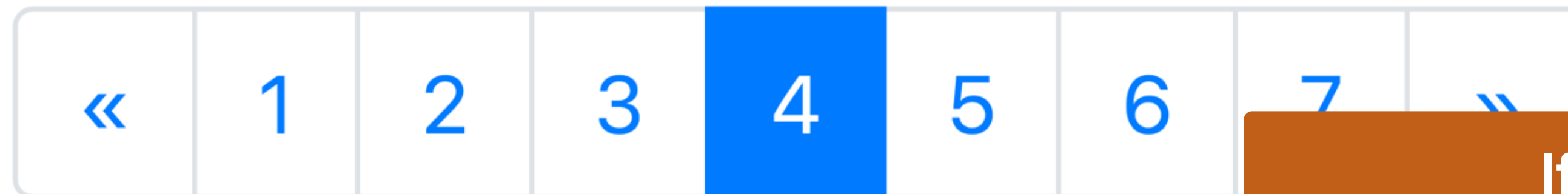
When user clicks a "page" navigation link

« 1 2 3 4 5 6 7 »

In our TypeScript component "thePageNumber" property is updated based on user action

If user clicks *4*,
then "thePageNumber" is set to *4*

luv2code

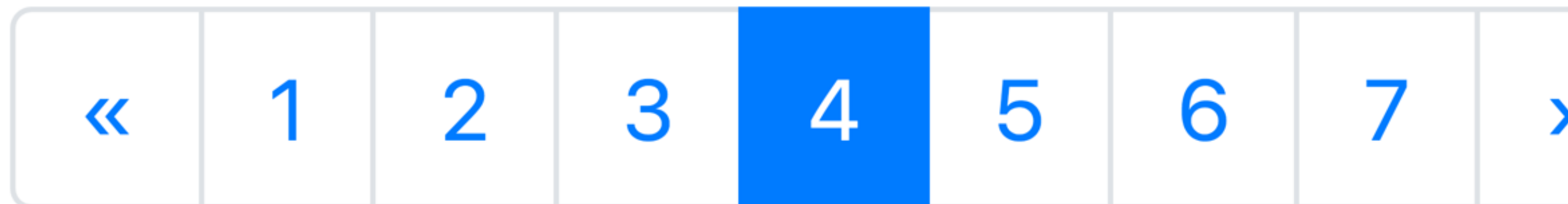# Step 5: Enhance HTML template to use ng-bootstrap pagination component

File: product-list-grid.component.html

```html
<div class="footer-pagination">
...
    <ngb-pagination [(page)]="thePageNumber"


    </ngb-pagination>
...
</div>
```

Current page number

File: product-list.component.ts

```typescript
export class ProductListComponent implements OnInit {

    // new properties for pagination
    thePageNumber: number;
    thePageSize: number;
    theTotalElements: number;
    ...
}
```

« 1 2 3 4 5 6 7 »

If our TypeScript code
updates "thePageNumber"
then UI component is updated
automatically

Current page number is highlighted

Step 5: Enhance HTML template to use ng-bootstrap pagination component

Special Angular syntax for

One-Way Data Binding

One-Way Data Binding

File: product-list.component.ts

```html
<div class="footer pagination">
...
    <ngb-pagination [(page)]="thePageNumber"
                    [pageSize]="thePageSize"


    </ngb-pagination>
...
</div>
```

```typescript
export class ProductListComponent implements OnInit {

    // new properties for pagination
    thePageNumber: number;
    thePageSize: number;
    theTotalElements: number;
    ...
}
```

If our TypeScript code updates "thePageSize" then UI component is updated automatically

« 1 2 3 4 5 6 7 »

luv2code

Step 5: Enhance HTML template to use ng-bootstrap pagination component

One-Way Data Binding

File: product-list-grid.component.html

```html
<div class="footer-pagination">
...
    <ngb-pagination [(page)]="thePageNumber"
                    [pageSize]="thePageSize"
                    [collectionSize]="theTotalElements"

    </ngb-pagination>
...
</div>
```

File: product-list.component.ts

```typescript
export class ProductListComponent implements OnInit {

    // new properties for pagination
    thePageNumber: number;
    thePageSize: number;
    theTotalElements: number;
    ...
}
```

If our TypeScript code updates "theTotalElements" then UI component is updated automatically

| « | 1 | 2 | 3 | **4** | 5 | 6 | 7 |

Step 5: Enhance HTML template to use ng-bootstrap pagination component

File: product-list.component.ts

```
export class ProductListComponent implements OnInit {

  listProducts() {

    this.searchMode = ...;

    if (this.searchMode) {
      this.handleSearchProducts();
    }
    else {
      this.handleListProducts();
    }
  }
}
```

File: product-list-grid.component.html

```html
<div class="footer-pagination">
...
    <ngb-pagination [(page)]="thePageNumber"
                    [pageSize]="thePageSize"
                    [collectionSize]="theTotalElements"
                    (pageChange)="listProducts()">

    </ngb-pagination>
...
</div>
```

**Event-binding:
pageChange event**

**When user clicks a "page" navigation link
then call the method:
listProducts()**

« 1 2 3 4 5 6 7 »

luv2code