

Angular 8 - Simple Pagination Example

Example built with **Angular 8.0.0**

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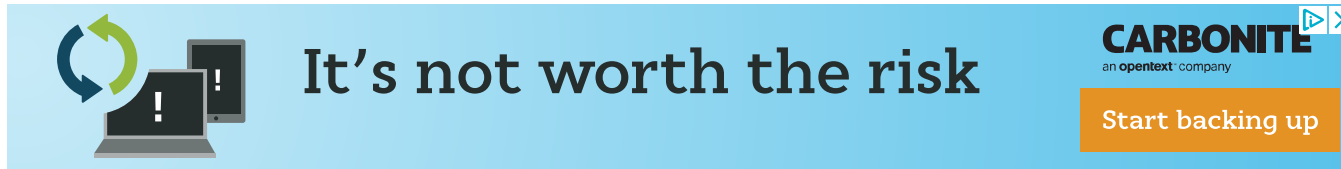
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Angular 8 Pagination Component

Pagination is implemented with the `<jw-pagination>` component that comes with the `jw-angular-pagination` package available on npm.



Installation

Install the Angular 8 pagination component with the command `npm install jw-angular-pagination`.

Integration with your Angular 8 app

Import the `JwPaginationComponent` into your Angular `app.module.ts` and add it to the `declarations` array to make it available to other components within the Angular module.

This is the app module (`app.module.ts`) from the example, the pagination component is imported on line 3 and added to the declarations on line 13 .

```
1 import { NgModule } from '@angular/core';
2 import { BrowserModule } from '@angular/platform-browser';
3 import { JwPaginationComponent } from 'jw-angular-pagination';
4
5 import { AppComponent } from './app.component';
6
7 @NgModule({
8   imports: [
9     BrowserModule
10  ],
11   declarations: [
12     AppComponent,
13     JwPaginationComponent
14  ],
15   bootstrap: [AppComponent]
16 })
17 export class AppModule { }
```

Usage

There are 2 required properties for using the Angular 8 pagination component:

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the faster, simpler, and **items** - the array of items to be paged

changePage - a callback function for handling the changePage event

```
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```

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There are also a few optional properties:

- **pageSize** - the number of items displayed on each page (defaults to 10)
- **maxPages** - the max number of page links to display in the pagination nav (defaults to 10)
- **initialPage** - the initial page to display (defaults to 1)

Example Angular 8 Component with Pagination

This is the app component (`app.component.ts`) from the example, it creates a hardcoded array of items to be paged in the `ngOnInit()` method, and updates the current page of items in the `onChangePage()` callback method.

```
1 import { Component, OnInit } from '@angular/core';
2
3 @Component({ selector: 'app', templateUrl: 'app.component.html' })
4 export class AppComponent implements OnInit {
5     items = [];
6     pageOfItems: Array<any>;
7
8     constructor() { }
9
10    ngOnInit() {
11        // an example array of 150 items to be paged
12        this.items = Array(150).fill(0).map((x, i) => ({ id: (i + 1), name: `Item ${i + 1}` }));
13    }
14
15    onChangePage(pageOfItems: Array<any>) {
16        // update current page of items
17        this.pageOfItems = pageOfItems;
18    }
19 }
```

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Example Angular 8 Component Template with Pagination

This is the app component template (`app.component.html`) from the example, it renders the current page of items using the `*ngFor` Angular directive on line 5 , and includes the pagination component (`<jw-pagination ...>`) on line 8 .

The pagination component is bound to `items` property of the app component using the Angular model binding attribute `[items]="items"` , and is bound to the `onChangePage()` method of the app component using the Angular event binding attribute `(changePage)="onChangePage($event)"` .

```
1 <!-- main app container -->
2 <div class="card text-center m-3">
3   <h3 class="card-header">Angular 8 Pagination Example</h3>
4   <div class="card-body">
5     <div *ngFor="let item of pageOfItems">{{item.name}}</div>
6   </div>
7   <div class="card-footer pb-0 pt-3">
8     <jw-pagination [items]="items" (changePage)="onChangePage($event)"></jw-pagination>
9   </div>
10 </div>
```

Styling the Pagination Component

The JW Angular pagination component is unstyled by default, you can use the below CSS selectors to add your own custom styles.

You can also plug in Bootstrap (3.x or 4.x) which the component works well with, that's

what I used in the example!

- **.pagination** - Pagination component container (`ul` element)
- **.pagination .page-item** - All list items in the pagination component
- **.pagination .page-item .page-link** - All pagination links including first, last, previous and next
- **.pagination .number-item** - All page numbers (1, 2, 3 etc) pagination elements
- **.pagination .first-item** - The 'First' pagination element
- **.pagination .last-item** - The 'Last' pagination element
- **.pagination .previous-item** - The 'Previous' pagination element
- **.pagination .next-item** - The 'Next' pagination element

Hiding Pagination Buttons

To hide any of the buttons you can simply set them to `display: none;` using the css selectors described above.

More Customisation of the Angular Pagination Component

If you want to make other customisations such as changing the HTML template of the component, I'd recommend just copying the pagination component code into your own custom Angular component, it's only 60 lines and will give complete flexibility to make any changes you like.

To use this approach you need to install the `jw-paginate` package from npm with the command `npm install jw-paginate`. The `jw-paginate` package contains the pagination logic used to paginate any array or list of items. For more info about the pagination logic see this post (</post/2018/08/07/javascript-pure-pagination-logic-in-vanilla-js-typescript/>).

This is the complete pagination component code, it's also available here

(<https://github.com/connorblue/jw-angular-pagination/blob/master/src/jw-paginate.component.ts>) on GitHub.

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```

42     ngOnChanges(changes: SimpleChanges) {
43         // reset page if items array has changed
44         if (changes.items.currentValue !== changes.items.previousValue) {
45             this.setPage(this.initialPage);
46         }
47     }
48 }
49
50 private setPage(page: number) {
51     // get new pager object for specified page
52     this.pager = paginate(this.items.length, page, this.pageSize, this.maxPages);
53
54     // get new page of items from items array
55     var pageOfItems = this.items.slice(this.pager.startIndex, this.pager.endIndex + 1);
56
57     // call change page function in parent component
58     this.changePage.emit(pageOfItems);
59 }
60 }

```

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Armando Angeloni • 2 months ago

Sorry but i change the pageSize dinamically. How i reload jw-pagination?

^ | v • Reply • Share ›



shashi • 4 months ago

hi jason,

Thanks for the amazing work , but there's some issue in the pagination when we set a pageSize

^ | v • Reply • Share ›



Jason Watmore Mod ➔ shashi • 4 months ago

Hi shashi, I just re-tested pageSize and it's working fine for me, here's an example of how to set it to 5:

```
<jw-pagination [pageSize]="5" [items]="items" (changePage)="onChangePage($event)"></jw-  
pagination>
```

Cheers,

Jason

1 ^ | v • Reply • Share ›



Shiju Augustine • 7 months ago

I have one issue after done my sorting pagination doesn't work. I have apply some sorting methods to my current data , after what I observed is like whenever items is not changing properly.

^ | v • Reply • Share ›



krishna ananthi • 8 months ago

Hi Jason,

Thanks for wonderful post on pagination. I have integrated this paginator to our project. What I observed is like whenever items is changing paginator has to change accordingly, but it doesn't seems to happen. Lets say initially i hav table with 100 records, 10 records per page, then i will be getting *first,prev,1 to 10 next and last* in paginator. Now when i am filtering on table, now items array is getting reduced to 25 records now i am expecting paginator to show *first prev 1 2 3 next last* first and second page having 10 records each, and 3rd page showing 5 records. BUT paginator is not getting changed instead its showing filtered records in all 10 pages. Another observation is

like when we are getting data from service, onload of page table is empty and paginator is not visible, when we navigate to different tab and come back then data is getting populated. Let me if i am doing anything wrong. Can u provide some solution for these two issues?

^ | v • Reply • Share ›



Protik PC • 9 months ago

Jason, Hi.

Suppose my data is coming from Database and I want to page it using your approach. Can you tell me how to modify your code? Can you answer with reference to THIS -->

<https://stackoverflow.com/q...>

^ | v • Reply • Share ›



George • 10 months ago

Hi Jason,

Thanks for your whole work, it's a huge help.

I am writing, because I've gotten into trouble. My problem is, I don't have full data all the time. I make a GET request to a web api, where I can only get data from one page at a time (I can make 40 request in 10 seconds). I've got the number of total pages and I would like to have pagination for whole data (I think of changing the URL on every change of page - so I could send another GET request), which sometimes consists of 800~ pages.

I would be grateful if you would give me some hints.

Best wishes

^ | v • Reply • Share ›



George → George • 10 months ago

Problem already solved. It was probably doable with jw-pagination, but for my solution I used ngb-pagination.

^ | v • Reply • Share ›



Jason Watmore Mod → George • 10 months ago

Hi George,

I've created another example that shows how to do server-side pagination the way you're describing - [Angular 8 + Node - Server Side Pagination Tutorial & Example](#).

Cheers,

I'm a web developer in Sydney Australia and the technical lead at Point Blank Development (<https://www.pointblankdevelopment.com.au>), I've been building websites and web applications in Sydney since 1998.

Find me on:



(https://twitter.com/jason_watmore)



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