



# Angular 5 CT Specialization

## Angular Material Lab 12

January 2019

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## Document Control

Version	1.0
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Date	January, 2019
Earlier versions	

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## Using *MatTableDataSource* to supply a data source to the data table

1. Open **notes.component.ts** file & add the following import statements:  

```
import {MatTableDataSource} from '@angular/material';
```
2. Add the following code inside the **NotesComponent** class:  

```
public datasource = null;
```
3. Add the following code inside the **ngOnInit()** method:  

```
this.datasource = new MatTableDataSource<Note>(this.contactnotes);
```
4. Open **notes.component.html** file & set the **datasource** property of the **<table>** element as follows:  

```
[dataSource]="datasource"
```
5. Serve the application & navigate to **http://localhost:4200/contactmanager/contactmanager**. Click on a contact & view the notes tab. Observe that the notes are displayed in a table format as before.

## Using *MatPaginator* & `<mat-paginator>` to add pagination to the data table

6. In **notes.component.html** file, add the following markup after the `<table>` element:

```
<mat-paginator [pageSizeOptions]="[2,4,6]" showFirstLastButtons>
</mat-paginator>
```

7. In the **notes.component.ts** file, add the following import statements:

```
import {ViewChild} from '@angular/core';
import {MatPaginator} from '@angular/material';
```


8. Add the following code inside the **NotesComponent** class:

```
@ViewChild(MatPaginator) paginator: MatPaginator;
```

9. Add the following code inside the **ngOnInit()** method:

```
this.datasource.paginator = this.paginator;
```

10. Serve the application & navigate to **http://localhost:4200/contactmanager/contactmanager**. Click on a contact & view the notes tab. Observe that a dropdown is displayed to control the table pagination as shown below:



**Steve Maconell**  
 Birthday: January 13, 1982

Contact Bio Information		Contact Notes
Id	Title	Date
1	House Cleaning	2019-01-28T07:06:33.4087443Z
2	Order food	2019-02-09T07:06:33.4087483Z

Items per page: 2 ▾
 1 - 2 of 5
 |< < > >|

You can click the back, forward, first or last buttons to display the notes page-wise.

## Using the *page* event of the `<mat-paginator>`

11. Add the following to the `<mat-paginator>` element:

```
(page)="DisplayDetails($event)"
```

12. Add the following markup below the `<mat-paginator>` element:

```
<div>
  You are viewing page number: {{currentpageIndex}} <br/>
  Total items being paged: {{length}} <br/>
  Previous page index: {{previouspageIndex}} <br/>
  Total items in current page: {{pagesize}}
</div>
```

13. Add the following inside the **NotesComponent** class:

```
public currentpageIndex:number;
public previouspageIndex:number;
public pagesize:number;
public length:number;
```

14. Add the following import statement inside **notes.component.ts** file:

```
import {PageEvent} from '@angular/material';
```

15. Add the following method inside the **NotesComponent** class:

```
public DisplayDetails(pageevent:PageEvent):void
{
  this.currentpageIndex = pageevent.pageIndex;
  this.previouspageIndex = pageevent.previousPageIndex;
  this.pagesize = pageevent.pageSize;
  this.length = pageevent.length;
}
```

16. Serve the application & navigate to **http://localhost:4200/contactmanager/contactmanager**. Click on a contact & view the notes tab. Navigate to a specific page & observe that the page navigation details are displayed below the paginator.