

## **Angular 5 CT Specialization Angular Material Lab 12**

January 2019

CitiusTech has prepared the content contained in this document based on information and knowledge that it reasonably believes to be reliable. Any recipient may rely on the contents of this document at its own risk and CitiusTech shall not be





responsible for any error and/or omission in the preparation of this document. The use of any third party reference should not be regarded as an indication of an endorsement, an affiliation or the existence of any other kind of relationship between CitiusTech and such third party

#### **Document Control**

Version	1.0
Created by	Karthikeyan J
Updated by	Karthikeyan J
Reviewed by	
Date	January, 2019
Earlier versions	



#### **Table of Contents**

Using MatTableDataSource to supply a data source to the data table	3
Using MatPaginator & <mat-paginator> to add pagination to the data table</mat-paginator>	4
Using the page event of the <mat-paginator></mat-paginator>	5



### 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 element as follows:

```
[dataSource]="datasource"
```

5. Serve the application & navigate to <a href="http://localhost:4200/contactmanager/contactmanager">http://localhost:4200/contactmanager/contactmanager</a>. 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 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';
```

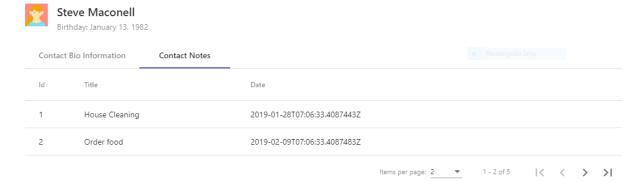
8. Add the following code inside the **NotesComponent** class:

```
@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:



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.

