



Angular 5 CT Specialization

Angular Material Lab 11

January 2019

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Document Control

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Generating a *Notes* component

1. Run the following command to create a **NotesComponent**. This component will be specifically used to represent a user/contact's **notes**:

```
D:\angular5specialization\angularmaterialapp>ng g c contact-manager/notes --skipTests
```

2. Open **main-content.component.html** & comment out the entire markup inside the **<mat-tab label="Contact Notes">** element & add the following markup instead:

```
<app-notes [notes]="user.notes"></app-notes>
```

3. Open **notes.component.ts** & add the following import statements into it:

```
import {Input} from '@angular/core';
import {Note} from '../models/note';
```

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

```
@Input('notes')
public contactnotes:Note[];
```

5. Open **notes.component.html** file, delete the existing markup inside it & add the following markup:

```
<div>
  {{contactnotes | json}}
</div>
```

6. Serve the application & navigate to <http://localhost:4200/contactmanager/contactmanager>. Click on a contact name to view his/her notes. Observe that the notes are displayed in JSON format as of now as shown below:



Erick Riley

Birthday: February 4, 1980

Contact Bio Information

Contact Notes

```
[ { "id": 1, "title": "Pay back dinner", "date": "2019-01-28T07:06:33.4087443Z" }, { "id": 2, "title": "Buy flowers for bir",
"title": "Do something", "date": "2019-02-19T07:06:33.4087506Z" }, { "id": 4, "title": "Make something", "date": "20
something", "date": "2019-03-11T07:06:33.408755Z" } ]
```

Displaying contact notes in a data table

- Open **notes.component.html** file & comment out the existing markup inside the **<div>** element.

- Open **notes.component.ts** file & add the following inside the **NotesComponent** class:

```
public columns:string[] = ['id','title','date'];
```

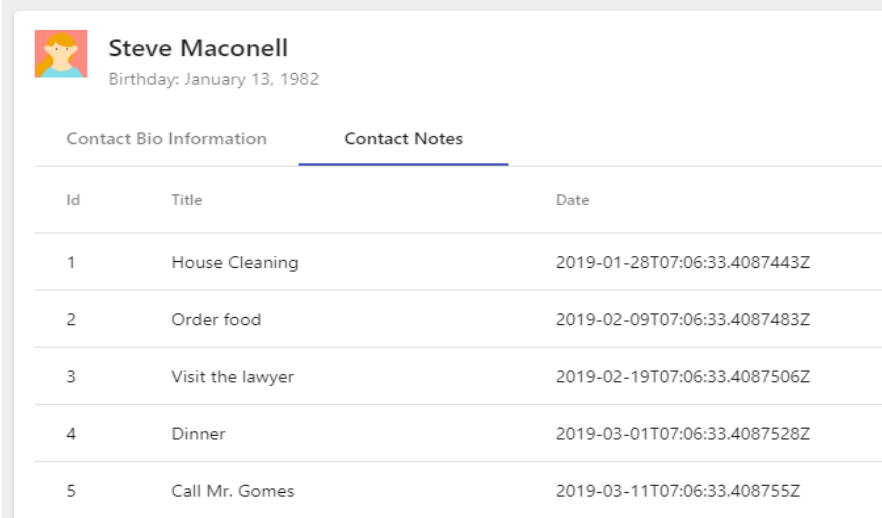
This is for defining columns of the data table.

- In the **notes.component.html** file, add the following markup inside the **<div>** element:

```
<table style="width:100%;" mat-table *ngIf="contactnotes.length!=0 ;
    else nonotes" #table [dataSource]="contactnotes"
    class="mat-elevation-z8">
  <ng-container *ngFor="let c of columns" matColumnDef="{{c}}">
    <th mat-header-cell *matHeaderCellDef>{{c | titlecase}}</th>
    <td mat-cell *matCellDef="let element">{{element[c]}} </td>
  </ng-container>
  <tr mat-header-row *matHeaderRowDef="columns"></tr>
  <tr mat-row *matRowDef="let row; columns: columns;"></tr>
</table>

<ng-template #nonotes>
  <h4>No notes to display</h4>
</ng-template>
```

- Serve the application & navigate to <http://localhost:4200/contactmanager/contactmanager>. Click on a contact name to view his/her notes. Observe that the notes are now displayed in a data table as shown below:



The screenshot shows a web application interface for a contact manager. At the top, there is a contact card for "Steve Maconell" with a birthday of "January 13, 1982". Below the card, there are two tabs: "Contact Bio Information" and "Contact Notes". The "Contact Notes" tab is selected, displaying a table of notes. The table has three columns: "Id", "Title", and "Date". There are five rows of data, each representing a note with an ID, a title, and a timestamp.

Id	Title	Date
1	House Cleaning	2019-01-28T07:06:33.4087443Z
2	Order food	2019-02-09T07:06:33.4087483Z
3	Visit the lawyer	2019-02-19T07:06:33.4087506Z
4	Dinner	2019-03-01T07:06:33.4087528Z
5	Call Mr. Gomes	2019-03-11T07:06:33.408755Z

