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Angular Material Table Dynamic Columns without model

Asked 1 year, 5 months ago Active 3 months ago Viewed 16k times



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I need to use angular material table without model, because I don't know what will come from service.

So I am initializing my `MatTableDataSource` and `displayedColumns` dynamically in component like that :

TableComponent :



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```
ngOnInit() {  
  
  this.vzfPuanTablo = [] //TABLE DATASOURCE  
  
  //GET SOMETHING FROM SERVICE  
  this.listecidenKisi = this.listeciServis.listecidenKisi;  
  this.listecidenVazife = this.listeciServis.listecidenVazife;  
  
  //FILL TABLE DATASOURCE  
  var obj = {};  
  for (let i in this.listecidenKisi ){  
    for( let v of this.listecidenVazife[i].vazifeSonuclar){  
      obj[v.name] = v.value;  
    }  
    this.vzfPuanTablo.push(obj);  
    obj={};  
  }  
  
  //CREATE DISPLAYED COLUMNS DYNAMICALLY  
  this.displayedColumns = [];  
  for( let v in this.vzfPuanTablo[0]){  
    this.displayedColumns.push(v);  
  }  
  
  //INITIALIZE MatTableDataSource  
  this.dataSource = new MatTableDataSource(this.vzfPuanTablo);  
}
```

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```
for( let v in this.vzfPuanTablo[0]){
    this.displayedColumns.push(v);
}
```

I am creating `displayedColumns` here dynamically, it means; even I don't know what will come from service, I can show it in table.

For example `displayedColumns` can be like that:

- ["one", "two", "three", "four", "five"]

or

- ["stack", "overflow", "help", "me"]

But it is not problem because I can handle it.

But when I want to show it in HTML, I can't show properly because of `matCellDef` thing:

TableHtml :

```
<mat-table #table [dataSource]="dataSource" class="mat-elevation-z8">

  <ng-container *ngFor="let disCol of displayedColumns; let colIndex = index"
matColumnDef="{{disCol}}">
    <mat-header-cell *matHeaderCellDef>{{disCol}}</mat-header-cell>
    <mat-cell *matCellDef="let element "> {{element.disCol}}
    </mat-cell>
  </ng-container>

  <mat-header-row *matHeaderRowDef="displayedColumns"></mat-header-row>
  <mat-row *matRowDef="let row; columns: displayedColumns;"></mat-row>
</mat-table>
```

My problem is here:

```
< mat-cell *matCellDef="let element "> {{element.disCol}} < / mat-cell>
```

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Otherwise, everything is ok except this `element."disCol's value"` thing.

When I use `{{element.disCol}}` to display value of element that has `disCols's` value , all cells are empty like that:

Vazife	Ad Soyad	Kirmizi	Mavi	Yesil	Sari

Other example that using `{{element}}` only:

Muhasebe	Ders	Egitim	Harici
[object Object]	[object Object]	[object Object]	[object Object]
[object Object]	[object Object]	[object Object]	[object Object]
[object Object]	[object Object]	[object Object]	[object Object]

Also as you can see:

1. Table datasource is changing dynamically. It means I can't use `{{element.colName}}` easily, because I don't know even what is it

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- Second Example's displayedColumns = ['Muhasebe', 'Ders', 'Egitim', 'Harici'];

2. `matHeaderCellDef` is correct , because it is using `{{disCol}}` directly.

But I need to read `disCol`'s value, and display `element.(disCol's value)` in the cell.

How can I do that ?

[dynamic](#) [interface](#) [angular-material](#) [datasource](#)

edited Apr 17 '18 at 7:56

asked Apr 17 '18 at 0:19



[mevaka](#)

293 1 4 15

2 Answers



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I found solution :) It is very very easy but i could't see at first :) only like that :

```
<mat-cell *matCellDef="let element "> {{element[disCol]}}
</mat-cell>
```

I must use `{{element[disCol]}}` only in HTML.

Now , everything is ok:)

answered Apr 17 '18 at 7:51



[mevaka](#)

293 1 4 15

Can you please send me full sample code to create dynamic column from API and fill grid – [Uttam](#) Apr 24 at 7:42

@Uttam I've added a full example below – [Jack](#) Jun 12 at 10:04

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Where `jobDetails$` is the array of items.

`columns$` is equivalent to `Object.keys(jobDetails$[0])` so is just an `string[]`

```
<table mat-table [dataSource]="jobDetails$ | async">

  <ng-container *ngFor="let disCol of (columns$ | async); let colIndex = index"
  matColumnDef="{{disCol}}">
    <th mat-header-cell *matHeaderCellDef>{{disCol}}</th>
    <td mat-cell *matCellDef="let element">{{element[disCol]}}</td>
  </ng-container>

  <tr mat-header-row *matHeaderRowDef="(columns$ | async)"></tr>
  <tr mat-row *matRowDef="let row; columns: (columns$ | async)"></tr>
</table>
```

answered Jun 12 at 10:04



Jack

1,236

4

32

49

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