



# Angular 5 CT Specialization

## Angular Material Lab 6

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 Angular Material's side navigation component

1. Open **side-nav.component.html** file & delete the existing code inside it.
2. Add the following markup:

```
<mat-sidenav-container class="example-container">
  <mat-sidenav #sidenav mode="side" opened="true">
    <app-toolbar></app-toolbar>
  </mat-sidenav>
  <mat-sidenav-content>
    <mat-toolbar color="primary" (click)="sidenav.toggle()">Contact
      Manager App
    </mat-toolbar>
    <router-outlet></router-outlet>
  </mat-sidenav-content>
</mat-sidenav-container>
```

3. Open **side-nav.component.css** file & add the following:

```
.example-container {
  position: absolute;
  top: 0;
  bottom: 0;
  left: 0;
  right: 0;
  background: #eee;
}
```

## Configuring the *ToolbarComponent* to use Angular material's toolbar component

4. Open **toolbar.component.html** file.
5. Delete the existing code inside it & add the following markup:

```
<mat-toolbar color="accent">Contacts</mat-toolbar>

<mat-list>
  <mat-list-item>Contact 1</mat-list-item>
  <mat-list-item>Contact 2</mat-list-item>
  <mat-list-item>Contact 3</mat-list-item>
  <mat-list-item>Contact 4</mat-list-item>
  <mat-list-item>Contact 5</mat-list-item>
</mat-list>
```

6. Serve the application & navigate to <http://localhost:4200/contactmanager>. The side nav should be functional now. Click on the application's title to toggle the side nav.

## Adding a simple CSS media query to change the side nav mode

7. Open **side-nav.component.html** & comment out the **<mat-sidenav>** element.
8. Add the following markup instead:

```
<mat-sidenav #sidenav [opened]="!isScreenSmall()"
              [mode]="isScreenSmall() ? 'over' : 'side'">
  <app-toolbar></app-toolbar>
</mat-sidenav>
```

9. Open **side-nav.component.ts** file & add the following after the import statement:  
`const SMALL_WIDTH_BREAKPOINT = 720;`

10. Add the following code inside the **SideNavComponent** class:

```
private mediamatcher:MediaQueryList =
  matchMedia(`(max-width:${SMALL_WIDTH_BREAKPOINT}px)`);

public isScreenSmall() : boolean
{
  return this.mediamatcher.matches;
}
```

11. Serve the application & navigate to <http://localhost:4200/contactmanager>. Display the browser's developers tools window by pressing **F12**. Move the border of the developers tools window & toggle the side nav. Observe how the mode of the side nav changes based on the media query specified.

## Adding a menu button to toggle

12. Open **side-nav.component.html** & add the following markup inside the **<mat-toolbar>** element inside the **<mat-sidenav-content>** element:

```
<button mat-button (click)="sidenav.toggle()">
  <mat-icon>menu</mat-icon>
</button>
```

13. Serve the application & navigate to <http://localhost:4200/contactmanager>. Notice that a menu button is displayed which can now be used to toggle the side nav.

## Adding a *mat-card* to hold the main contents

What is a mat-card?

<https://material.angular.io/components/card/overview>

14. Open **main-content.component.html** file & delete the existing markup in it.

15. Add the following markup instead:

```
<mat-card>
  <h3>Main content goes here</h3>
</mat-card>
```

16. Wrap the **<router-outlet>** inside a **<div>** element in the **side-nav.component.html** & specify a CSS class to add margin.

17. Open **side-nav.component.html** & wrap the **<router-outlet>** as follows:

```
<div class="contentwrapper">
  <router-outlet></router-outlet>
</div>
```

18. Open **side-nav.component.css** file & add the following CSS class:

```
.contentwrapper
{
  margin: 50px;
}
```

19. Serve the application & navigate to <http://localhost:4200/contactmanager>. Notice that the main content now appears as a card with a margin.