



Fast Learner Activity

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Subject : Web Technology

Class:FY MCA

A basic angular app with routing and data passing functionalities.

Create new app
ng new (your-app-name)

```
C:\Users\Aditya\Downloads\Fast Learner>ng new fastL
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE fastL (angular) (2696 bytes)
```

Generate two components , here we generate comp1 and comp2

ng g c (your-component-name)

```
C:\Users\Aditya\Downloads\Fast Learner\fastL>ng g c comp1
CREATE src/app/comp1/comp1.component.html (20 bytes)
CREATE src/app/comp1/comp1.component.spec.ts (592 bytes)
CREATE src/app/comp1/comp1.component.ts (198 bytes)
CREATE src/app/comp1/comp1.component.css (0 bytes)
UPDATE src/app/app.module.ts (471 bytes)

C:\Users\Aditya\Downloads\Fast Learner\fastL>ng g c comp2
CREATE src/app/comp2/comp2.component.html (20 bytes)
CREATE src/app/comp2/comp2.component.spec.ts (592 bytes)
CREATE src/app/comp2/comp2.component.ts (198 bytes)
CREATE src/app/comp2/comp2.component.css (0 bytes)
UPDATE src/app/app.module.ts (549 bytes)
```



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Start app

ng serve

```
C:\Users\Aditya\Downloads\Fast Learner\fastL>ng serve  
✓ Browser application bundle generation complete.
```

Initial Chunk Files	Names	Raw Size
vendor.js	vendor	2.04 MB
polyfills.js	polyfills	314.26 kB
styles.css, styles.js	styles	209.39 kB
main.js	main	8.98 kB
runtime.js	runtime	6.51 kB
	Initial Total	2.56 MB



Routing

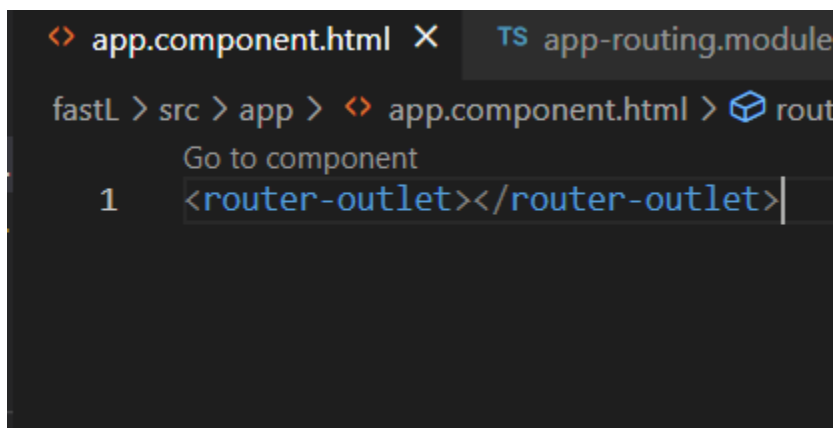
Add the lines highlighted below comments to create a route in app-routing.module.ts

```
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { Comp1Component } from './comp1/comp1.component';
import { Comp2Component } from './comp2/comp2.component';
const routes: Routes = [
  {
    // add Path here , we set default to load comp1
    path:"",component:Comp1Component,
  },
  {
    // we add another path which will component 2,
    path:"comp2",component:Comp2Component
  }
];

@NgModule({
  imports: [RouterModule.forRoot(routes)],
  exports: [RouterModule]
})
export class AppRoutingModule { }
```

In app.component.html

Type <router-outlet> tag





How to setup NgModel

In app.module.ts add the lines specified in comments

```
✓ import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';

✓ //-----//
//import FormsModule //
import { FormsModule } from '@angular/forms';
//-----//

import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { Comp1Component } from './comp1/comp1.component';
import { Comp2Component } from './comp2/comp2.component';

|

@NgModule({
✓ declarations: [
  AppComponent,
  Comp1Component,
  Comp2Component
],
✓ imports: [
  //-----//
  //add it here//
  FormsModule,
  //-----//
  BrowserModule,
  AppRoutingModule
]
```

// add the following line specified in comment in com1.component.ts

```
fastL > src > app > comp1 > TS comp1.component.ts > ⚡ Comp1Component
1  import { Component } from '@angular/core';
2
3  @Component({
4    selector: 'app-comp1',
5    templateUrl: './comp1.component.html',
6    styleUrls: ['./comp1.component.css']
7  })
8
9  export class Comp1Component {
10   // we create variable of datatype string in here in comp1 component //
11   textData:String = "";
12
13
14 }
15
```



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Add this line in comp1.component.html

```
<!-- add this line -->  
<input type="text" [(ngModel)]="textData">
```

Now we can access the input data that user may enter and we store it in our textData variable, please do make sure both the variable names are the same



Data Passing

How to create a Service

ng g s (your-service-name)

```
C:\Users\Aditya\Downloads\Fast Learner\fastL>ng g s PassData
CREATE src/app/pass-data.service.spec.ts (368 bytes)
CREATE src/app/pass-data.service.ts (137 bytes)
```

We will use this service to pass data from input field of comp1 component (for which we set up ngmodel earlier) to comp2 component

Add this code in newly generated service

Here we create two function which set data and pass the data wherever it may be required

```
import { Injectable } from '@angular/core';

@Injectable({
  providedIn: 'root'
})
export class PassDataService {

  constructor() { }
  data:String = "dummy";
  setData(input:String){
    console.log(input);
    this.data = input;
  }

  getData(){
    return this.data;
  }
}
```



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Put below code in comp1 component (ts) file

Here we are creating a function which itself would call the service function (setData) function

```
✓ export class Comp1Component {  
✓   constructor( private _passData:PassDataService){  
    }  
  
    // we create variable of datatype string in here in comp1 component //  
    textData:String = "test1";  
  
    getInputFromUser(){  
      console.log(this.textData);  
      this._passData.setData(this.textData)  
    }  
  }  
}
```

In comp2 component add this code in (ts) file

```
✓ import { Component } from '@angular/core';  
import { PassDataService } from '../pass-data.service';  
  
✓ @Component({  
  selector: 'app-comp2',  
  templateUrl: './comp2.component.html',  
  styleUrls: ['./comp2.component.css']  
})  
✓ export class Comp2Component {  
  testData2:String = "";  
  constructor(private passData:PassDataService){  
    this.testData2 = passData.getData();  
  }  
}
```



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Add this code in comp2.html file

```
app.component.html  comp2.component.html X  comp2.component.html
fastL > src > app > comp2 > comp2.component.html > ...
1  <h1>{{testData2}}</h1>
```

PARENT to CHILD data Passing using @INPUT()

Create a new child component (comp2CHILD) for our comp2 component

```
C:\Users\Aditya\Downloads\Fast Learner\fastL>ng g c comp2CHILD
CREATE src/app/comp2-child/comp2-child.component.html (26 bytes)
CREATE src/app/comp2-child/comp2-child.component.spec.ts (628 bytes)
CREATE src/app/comp2-child/comp2-child.component.ts (221 bytes)
CREATE src/app/comp2-child/comp2-child.component.css (0 bytes)
UPDATE src/app/app.module.ts (966 bytes)
```

Add this lines in comp2CHILD component (ts) file



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```
import { Component, Input } from '@angular/core';

@Component({
  selector: 'app-comp2-child',
  templateUrl: './comp2-child.component.html',
  styleUrls: ['./comp2-child.component.css']
})
export class Comp2CHILDComponent {}

@Input() testData :String = "";
}
```

Add this line in comp2.component.html

```
<h1>Component 2</h1>
<h2>{{testData2}}</h2>
<!-- add this line in our comp2.component.html -->
<app-comp2-child [testData]="testData2"></app-comp2-child>
```

We are basically the data from the user which is transferred to use through service we created earlier

Then we created another child for comp2

So comp2 would be parent of comp2CHILD

Then we pass data to comp2CHILD using @Input() decorator