

Two way Data Binding

Step 1)

1) Run your program using **ng serve** command, for parent and child relationship we need to create new component.

2) We create **twoway component** and see there have 3 files as.

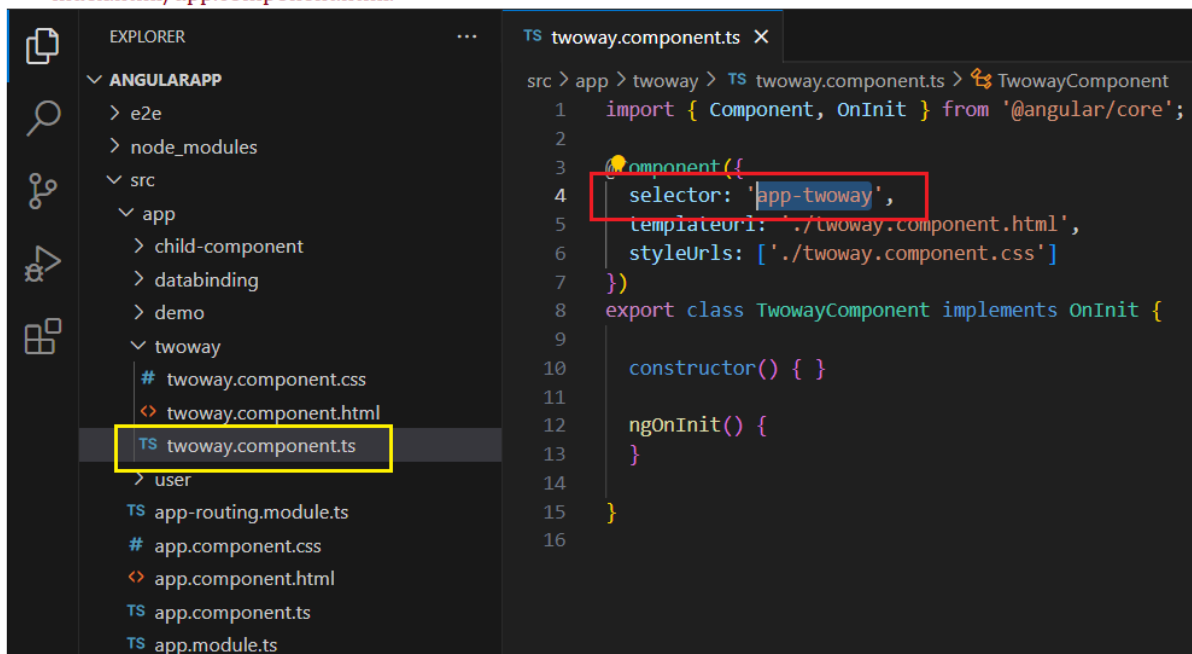
1. **twoway.component.html** 2. **twoway.component.ts** 3. **twoway.component.css**

```
Windows PowerShell
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PS E:\Angular\angularApp\angularApp> ng g c twoway --skipTests
CREATE src/app/twoway/twoway.component.html (21 bytes)
CREATE src/app/twoway/twoway.component.ts (269 bytes)
CREATE src/app/twoway/twoway.component.css (0 bytes)
UPDATE src/app/app.module.ts (854 bytes)
PS E:\Angular\angularApp\angularApp>
```

3) After this we need to open **twoway.component.ts** file

3) Copy Selector Property and assign in where u want to perform operation
index.html/app.component.html.



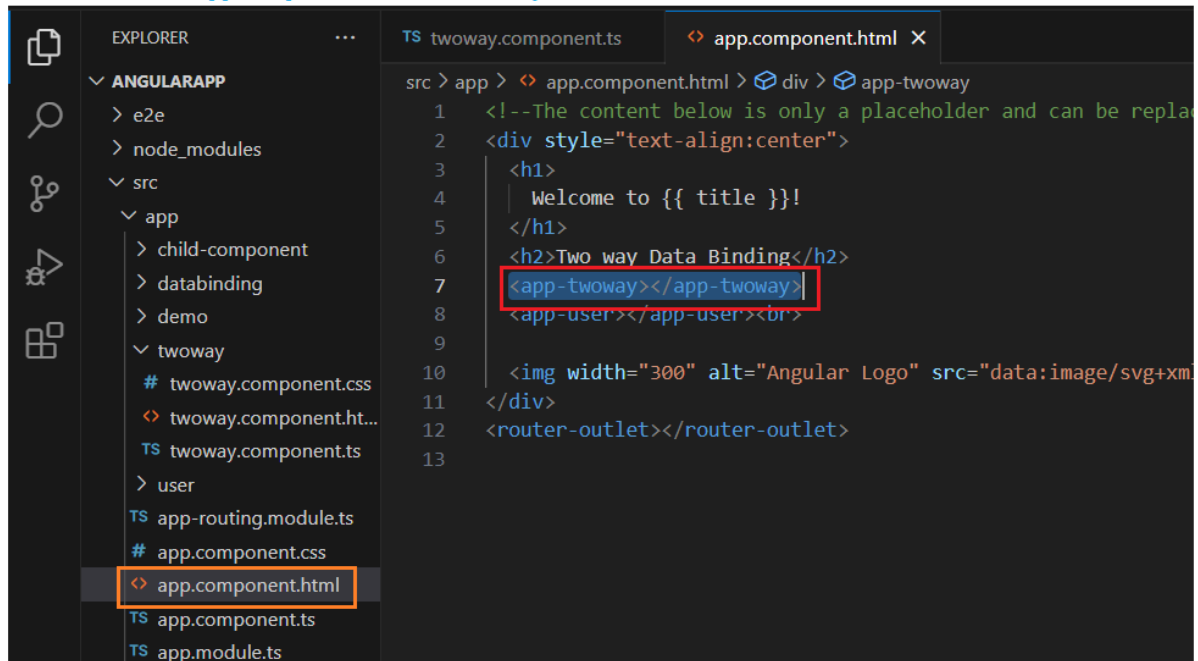
The screenshot shows the Visual Studio Code interface. On the left, the Explorer view displays the project structure with the file **TS twoway.component.ts** selected and highlighted with a yellow box. On the right, the editor shows the content of **twoway.component.ts**. The **@Component** decorator is visible, and the **selector** property is set to **'app-twoway'**, which is highlighted with a red box. The code also shows the **templateUrl** and **styleUrls** properties, and the **TwowayComponent** class implementing **OnInit**.

Two way Data Binding

5) Then

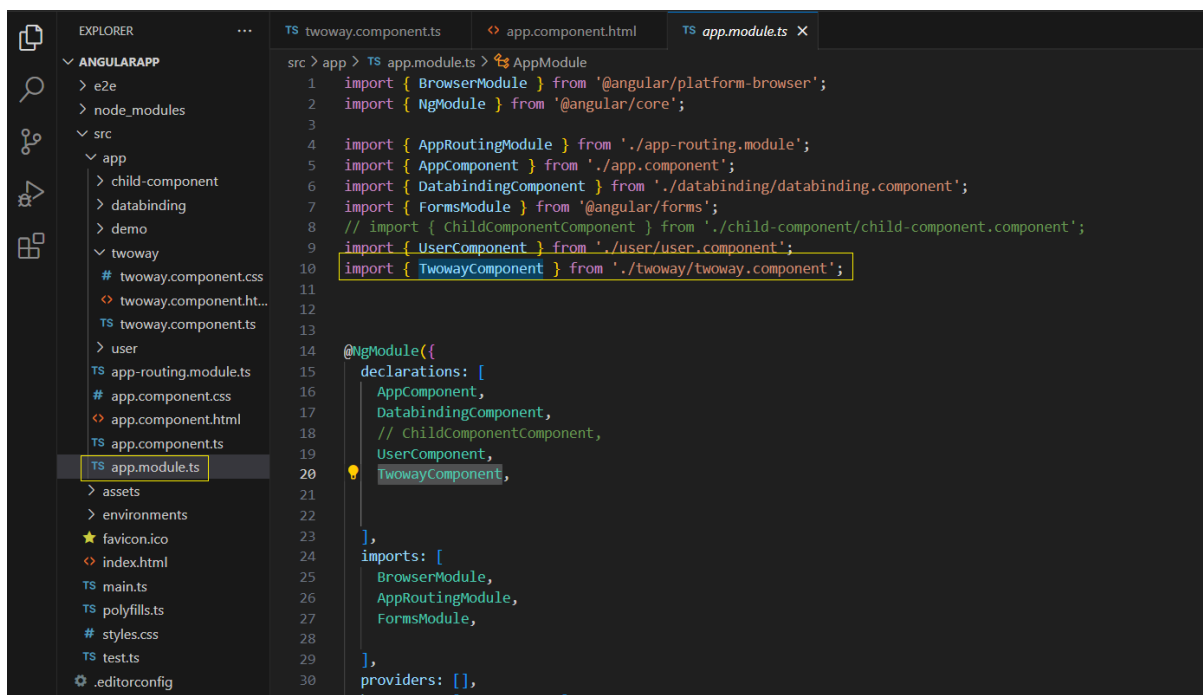
4) Paste that Address in `app.component.html` file.

It means your `twoway` project and `app.component.html` make a relation of parent and child
Where Parent id `app.component.html` and `twoway` is child.



```
src > app > app.component.html > div > app-twoway
1 <!--The content below is only a placeholder and can be replaced-->
2 <div style="text-align:center">
3   <h1>
4     Welcome to {{ title }}!
5   </h1>
6   <h2>Two way Data Binding</h2>
7   <app-twoway></app-twoway>
8   <app-user></app-user><br>
9
10  
11 </div>
12 <router-outlet></router-outlet>
13
```

- For two way binding using we need to import **FormsModule**. Because `ngModel` is **not a part** of angular core library.
- `ngModel` is a part of `FormsModule` and `FormsModule` is a part of angular core library.
- Hence we need to import **FormsModule**.
- Also declare **FormsModule** in declaration array.



```
src > app > TS app.module.ts > AppModule
1 import { BrowserModule } from '@angular/platform-browser';
2 import { NgModule } from '@angular/core';
3
4 import { AppRoutingModule } from './app-routing.module';
5 import { AppComponent } from './app.component';
6 import { DataBindingComponent } from './databinding/databinding.component';
7 import { FormsModule } from '@angular/forms';
8 // import { ChildComponentComponent } from './child-component/child-component.component';
9 import { UserComponent } from './user/user.component';
10 import { TwowayComponent } from './twoway/twoway.component';
11
12
13
14 @NgModule({
15   declarations: [
16     AppComponent,
17     DataBindingComponent,
18     // ChildComponentComponent,
19     UserComponent,
20     TwowayComponent,
21   ],
22   imports: [
23     BrowserModule,
24     AppRoutingModule,
25     FormsModule,
26   ],
27   providers: [],
28   bootstrap: [AppComponent]
29 })
30 export class AppModule {}
31
```

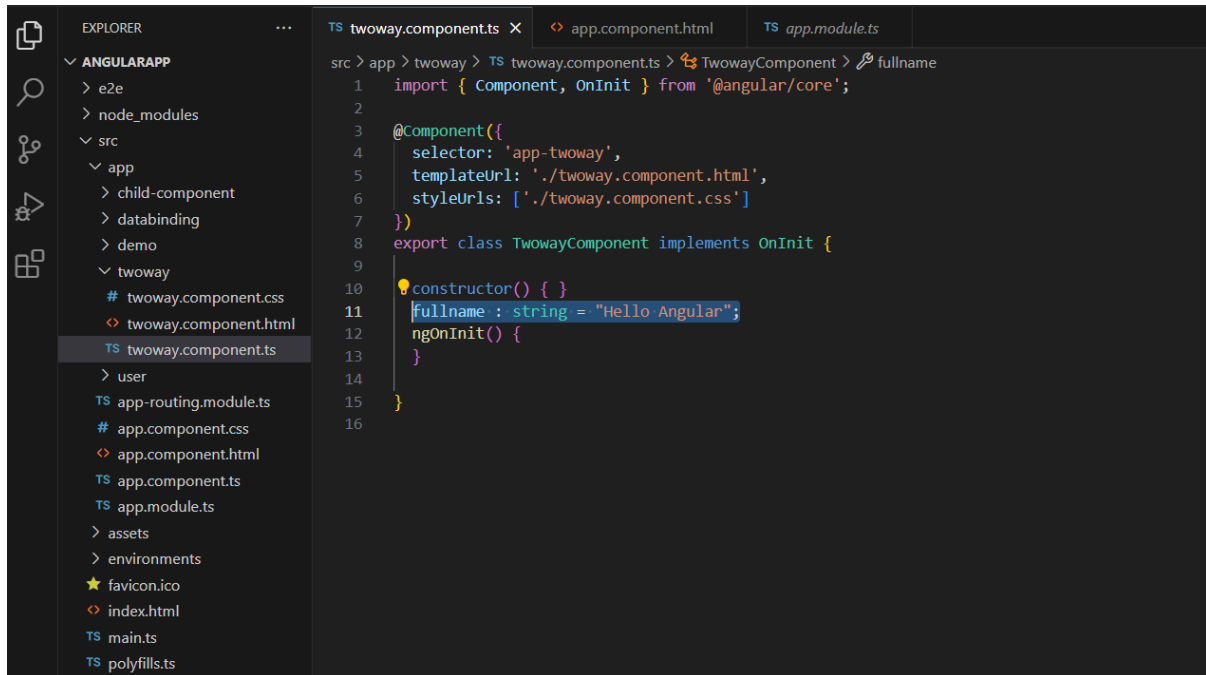
Two way Data Binding

6) Now our setup is completed. So we can perform our operation.

7) Now open **twoway.component.ts** file and write your business logic here.

Here I'm taking one string "Hello Angular" and store in variable `fullName`.

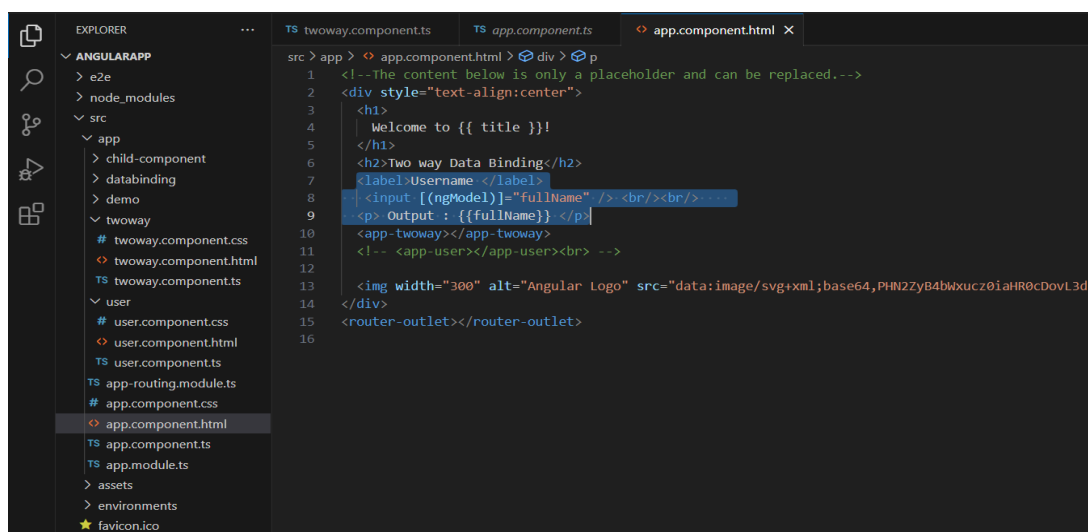
I need to pass this value to parent component. So what we are doing we send data TypeScript file to Html file. TS to HTML known as property Binding [].



```
src > app > twoway > TS twoway.component.ts > TwowayComponent > fullname
1  import { Component, OnInit } from '@angular/core';
2
3
4  @Component({
5    selector: 'app-twoway',
6    templateUrl: './twoway.component.html',
7    styleUrls: ['./twoway.component.css']
8  })
9  export class TwowayComponent implements OnInit {
10
11    constructor() { }
12    fullname : string = "Hello Angular";
13    ngOnInit() {
14
15    }
16  }
```

8) Need to Bind `fullName` property for that choose **app.component.html** file.


- **label** : for display username label in front of username.
- **<input>** : for getting input from **twoway.component.ts** using `ngModel`.
- **ngModel** : create an instance of form control..
- **Output** : using string interpolation display string which is enter by user.



```
src > app > app.component.html > div > p
1  <!--The content below is only a placeholder and can be replaced.-->
2  <div style="text-align:center">
3    <h1>
4      Welcome to {{ title }}!
5    </h1>
6    <h2>Two way Data Binding</h2>
7    <label>Username </label>
8    <input [(ngModel)]="fullname" /> <br/><br/>
9    <p> Output : {{fullname}} </p>
10   <app-twoway></app-twoway>
11   <!-- <app-user></app-user><br> -->
12
13    <br/><br/>`

Output : Hey I am Angular 8.1.0  
twoway works!

Output String `<p> Output : {{fullName}} </p>`  
String Interpolation



U can see this window. So like this way your Two-way data Binding will works.