Component Level interaction

Create app: >ng new complevelinteraction

Move to that folder and execute

>Ng serve

Create child component using : ng g c child

Open app.component.html and add below mentioned code

<div>

  <h1>This is My Parent Component</h1>

  Enter Any Value From Parent: <input type="text" (keyup)="0" #mydata/>

</div>

<app-child [parentdata]="mydata.value"></app-child>

Open app.component.css

div{

    background-color: bisque;

}

Now open child.component.ts file and get the value as input decorator

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

@Component({

  selector: 'app-child',

  templateUrl: './child.component.html',

  styleUrls: ['./child.component.css'],

  inputs:['parentdata']

})

export class ChildComponent implements OnInit {

  parentdata:string=""

  constructor() { }

  ngOnInit(): void {

  }}

Now open child.component.html and display the data coming from parent.

<div>

    <h1>This is my Child Component</h1>

    <h3>Value coming from Parent Component {{parentdata}}</h3>

</div>

Let’s Do Child to Parent Communication

Child.component.html

Create input field to enter data in child component and apply keyup event so when keyups the method onChange called and we are passing the user entered value to this method.

<div>

    <h1>This is my Child Component</h1>

    <h3>Value coming from Parent Component {{parentdata}}</h3>

    Enter Any Value from Child: <input type="text" #ctext

    (keyup)="onChange(ctext.value)">

</div>

Let’s create method in child.component.ts

import { Component, EventEmitter, OnInit } from '@angular/core';

@Component({

  selector: 'app-child',

  templateUrl: './child.component.html',

  styleUrls: ['./child.component.css'],

  inputs:['parentdata'],

  outputs:['myEvent']

})

export class ChildComponent implements OnInit {

  parentdata:string=""

  constructor() { }

  ngOnInit(): void {

  }

  myEvent= new EventEmitter();

  onChange(value:String){

    this.myEvent.emit(value);

  }

}

Now let’s take the emitted value from child to parent component

For that declare a variable in app.component.ts

import { Component } from '@angular/core';

@Component({

  selector: 'app-root',

  templateUrl: './app.component.html',

  styleUrls: ['./app.component.css']

})

export class AppComponent {

  title = 'compinteraction';

  childData:string=""

}

Open app.component.html

<div>

  <h1>This is My Parent Component</h1>

  <h3>Value coming from Child Component {{childData}}</h3>

  Enter Any Value From Parent: <input type="text" (keyup)="0" #mydata/>

</div>

<app-child [parentdata]="mydata.value" (myEvent)="childData=$event"></app-child>

Whatever the event will emit in child component that is declared as an output event which we can use in parent component to get the data.