**TWO WAY COMMUNICATION**

Prepare new app in angular with name parent

>ng new parent

Change the directory

>cd parent

Prepare child component inside the app

* Ng g c child

**Communication from parent to the child**

Goto **app.component.html** and add below code

<h1>Component Interaction</h1>

<app-child></app-child>

Start the app

* ng serve

now go to **app.component.html** and add the below code

<h1>Component Interaction</h1>

<h1>Paprent Component</h1>

<!--Parent to the child Communication-->

<input type="text" (keyup)="0" #ptext>

<app-child [pdata]="ptext.value"></app-child>

Now goto **child.component.ts**

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

@Component({

  selector: 'app-child',

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

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

  inputs:['pdata'],

})

export class ChildComponent implements OnInit {

  pdata:string=""

  constructor() { }

  ngOnInit(): void {

  }

}

**To get the value in child component**

**Goto>child.component.html**

<p>child works!</p>

<br>

<p>Value coming from Parent Component: <b>{{pdata}}</b></p>

**Save it and check the output:**

**Now you will be able to send value from parent to the child**

**COMMUNICATION FROM CHILD TO PARENT**

**Goto> Child.component.html**

<h1>Child Component</h1>

<br>

<p>Value coming from Parent Component: <b>{{pdata}}</b></p>

<hr>

<br>

<input type="text" #cdata (keyup)="onChange(cdata.value)">

**Child.component.ts**

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

@Component({

  selector: 'app-child',

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

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

  inputs:['pdata'],

  outputs:['cevent'],

})

export class ChildComponent implements OnInit {

  pdata:string=""

  constructor() { }

  ngOnInit(): void {

  }

  cevent= new EventEmitter<String>();

  onChange(value:string){

    this.cevent.emit(value);

  }

}

**Let’s access this value in parent component**

**App.component.html**

<h1>Component Interaction</h1>

<h1>Paprent Component</h1>

<!--Parent to the child Communication-->

<input type="text" (keyup)="0" #ptext>

<!--child to parent communication-->

<p>Value Receivedfrom Child Component: <b>{{cdata}}</b></p>

<app-child [pdata]="ptext.value" (cevent)="cdata=$event"></app-child>

**Goto app.component.ts**

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

@Component({

  selector: 'app-root',

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

  styleUrls: ['./app.component.css']

})

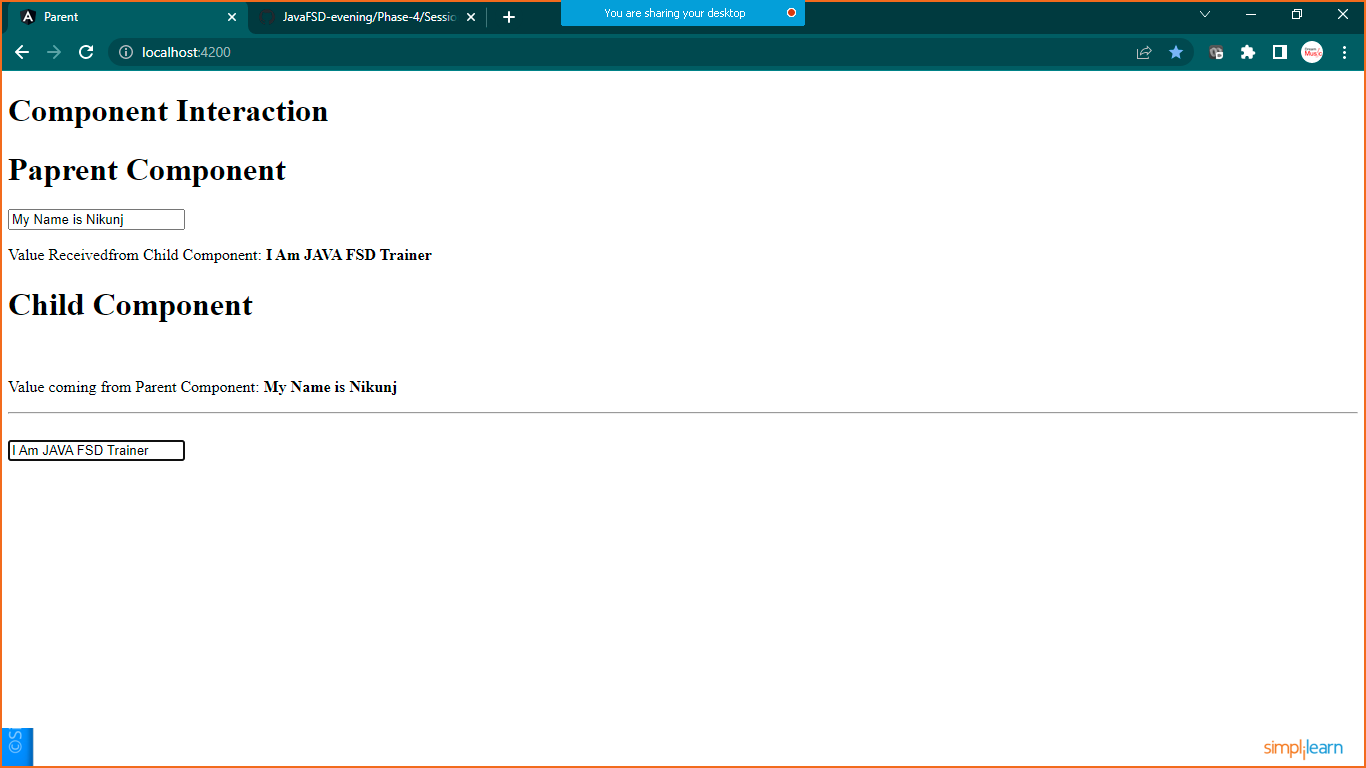
export class AppComponent {

  title = 'parent';

  cdata:String=""

}

**Save it and check the out put**



**To integrate bootstarp**

**Add css and script file from bootstrap official website to your index.html file**

<!doctype html>

<html lang="en">

<head>

  <meta charset="utf-8">

  <title>Parent</title>

  <base href="/">

  <meta name="viewport" content="width=device-width, initial-scale=1">

  <link rel="icon" type="image/x-icon" href="favicon.ico">

  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css" integrity="sha384-zCbKRCUGaJDkqS1kPbPd7TveP5iyJE0EjAuZQTgFLD2ylzuqKfdKlfG/eSrtxUkn" crossorigin="anonymous">

</head>

<body>

  <app-root></app-root>

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.bundle.min.js" integrity="sha384-fQybjgWLrvvRgtW6bFlB7jaZrFsaBXjsOMm/tB9LTS58ONXgqbR9W8oWht/amnpF" crossorigin="anonymous"></script>

</body>

</html>

**Go to app.component.css**

h1,h2,h3,h4{

    color: coral

}

input{

    background-color: darkgrey;

    color: white;

    font-size: large;

}

b{

    color: red;

}

**Goto to app.component.html and replace the previous code with below code**

<hr>

<div class="container">

    <h1>Child Component</h1>

<h4>Value coming from Parent Component: <b>{{pdata}}</b></h4>

<br>

    <div class="row">

      <div class="col-sm-3">

        <h3> Enter The Value: </h3>

      </div>

      <div class="col-sm-3">

        <input type="text" #cdata (keyup)="onChange(cdata.value)">

      </div>

    </div>

  </div>

**Goto app.component.css and prepare css like below**

h1,h2,h3,h4{

    color: slateblue;

}

input{

    background-color: darkgray;

    color: white;

    font-size: large;

}

b{

    color: red;

}

**Goto app.component.html and replace the previous code with below code**

<!--Parent to the child Communication-->

<div class="container">

   <h2>Paprent Component</h2>

  <div class="row">

    <div class="col-sm-3">

      <h3> Enter The Value: </h3>

    </div>

    <div class="col-sm-3">

     <input type="text" (keyup)="0" #ptext>

    </div>

    <div class="col-sm-3">

     </div>

  </div>

  <div class="row">

    <div class="col-sm-12">

         <!--child to parent communication-->

       <h4>Received from Child Component: <b>{{cdata}}</b></h4>

    </div>

  </div>

</div>

<app-child [pdata]="ptext.value" (cevent)="cdata=$event"></app-child>

**Save it and check the out put**

