**Angular parent to child, child to parent Example**

**LAB-1**

child.component.ts

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

@Component({

  selector: 'app-child',

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

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

})

export class ChildComponent implements OnInit {

  @Input() PData: number|any;

  @Output() childEvent = new EventEmitter();

  constructor() { }

  onChange(value: number | any) {

    this.childEvent.emit(value);

  }

  ngOnInit() {

  }

}

child.component.html

<h3>Child Component</h3>

<label>Child Component</label>

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

<p>Value of parent component is: {{ PData }}</p>

parent.component.ts

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

import { ChildComponent } from '../child/child.component';

@Component({

  selector: 'app-parent',

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

  styleUrls: ['./parent.component.css']

})

export class ParentComponent implements OnInit {

  public CData:number|any;

  constructor() { }

  ngOnInit() {

  }

}

parent.component.html

<h3>Parent Component</h3>

<label>Parent Component</label>

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

<p>Value of child component is: {{ CData }}</p>

<app-child [PData]="pcomponent.value" (childEvent)="CData=$event"></app-child>

app.component.html

<div style="text-align:center">

    <h1>

        Welcome to {{ title }}!

    </h1>

    <app-parent></app-parent>

</div>

        MustMatchDirective

    ],

    bootstrap: [AppComponent]

})

export class AppModule { }

app.component.ts

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

@Component({

  selector: 'app-root',

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

  styleUrls: ['./app.component.css']

})

export class AppComponent {

  title = 'ng-componentcommunication';

}

app.module.ts

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

import { BrowserModule } from '@angular/platform-browser';

import { AppComponent } from './app.component';

import { ParentComponent } from './parent/parent.component';

import { ChildComponent } from './child/child.component';

@NgModule({

  declarations: [

    AppComponent,

    ParentComponent,

    ChildComponent

  ],

  imports: [

    BrowserModule

  ],

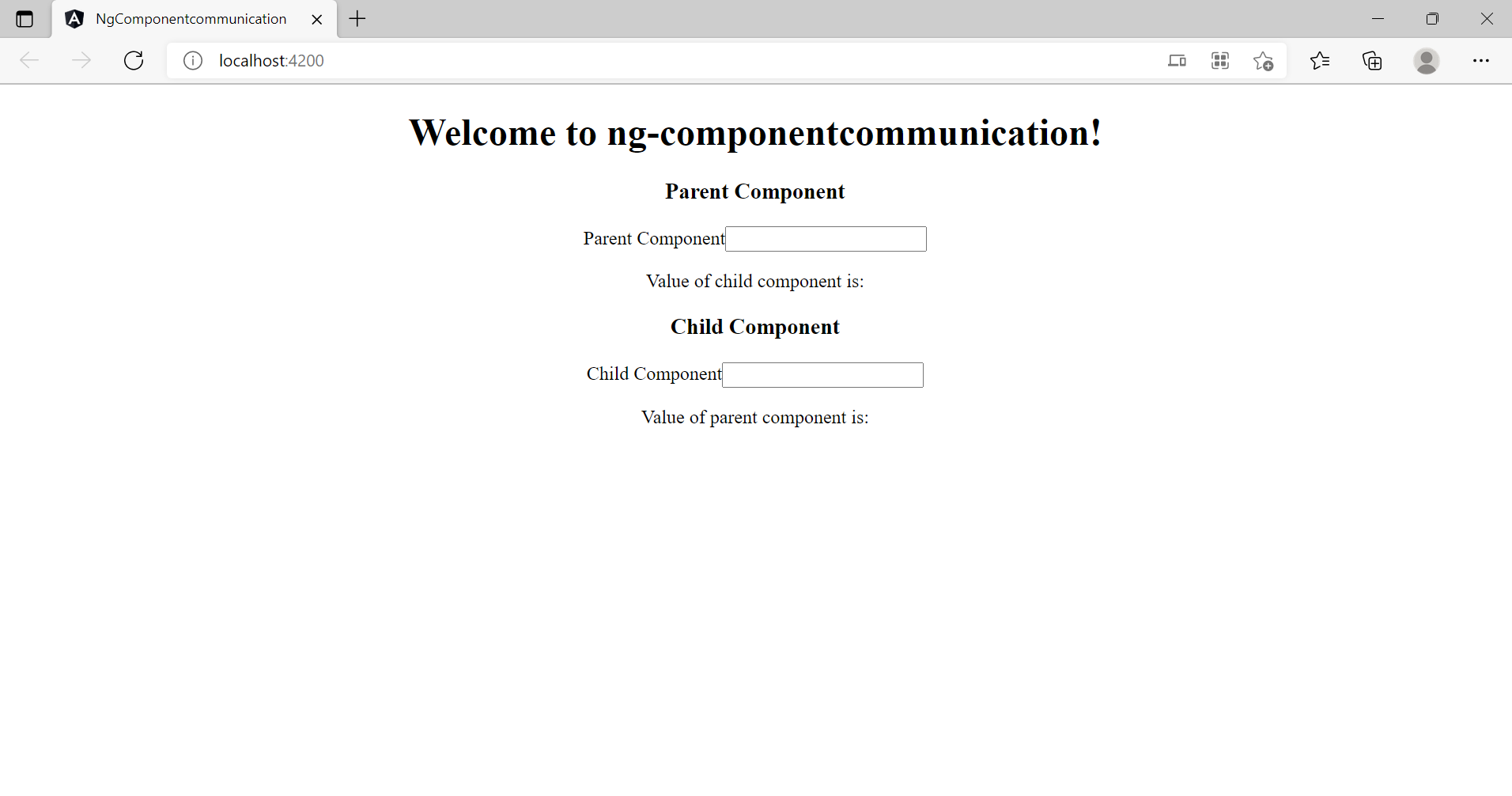
  providers: [],

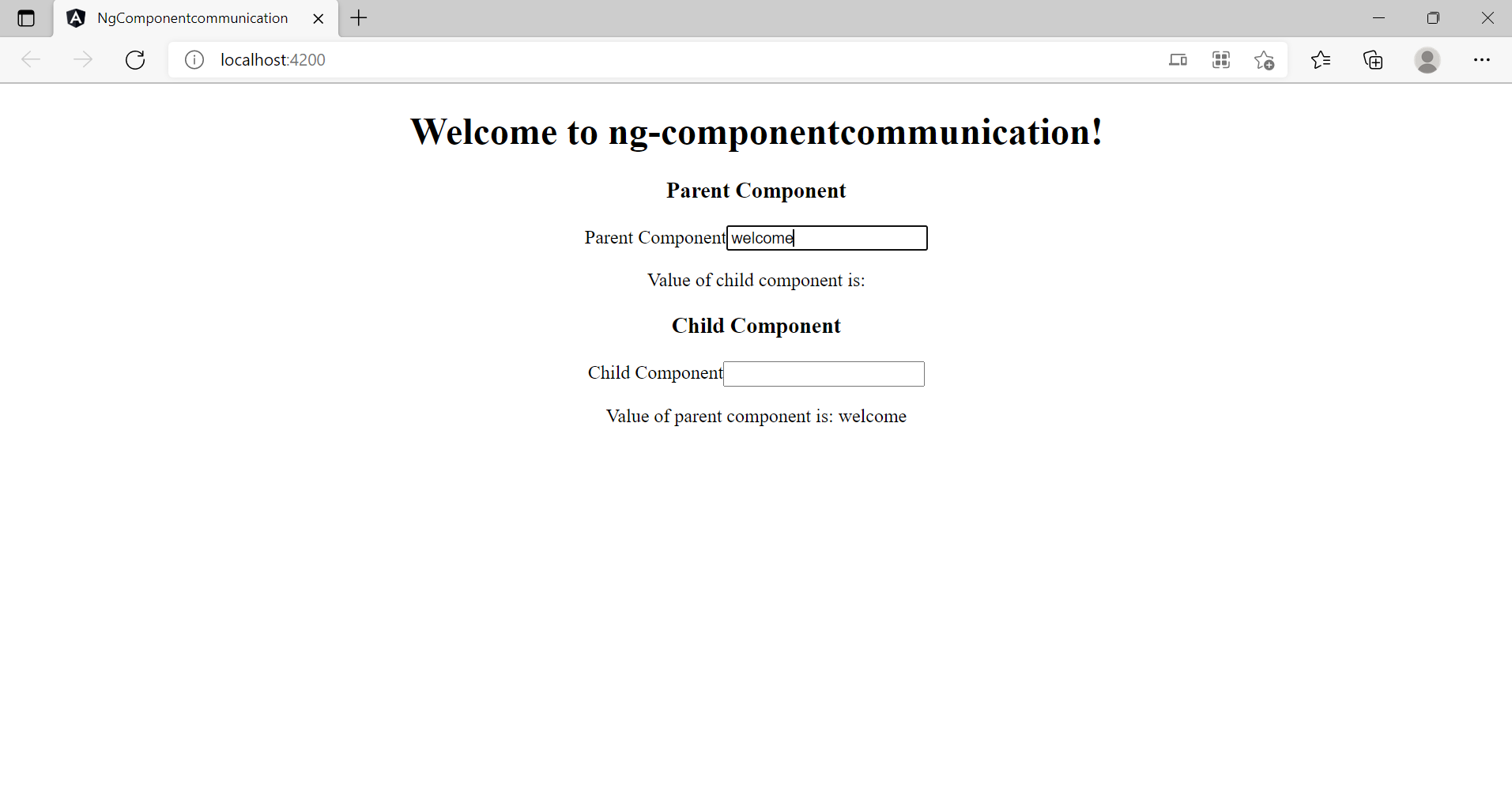
  bootstrap: [AppComponent]

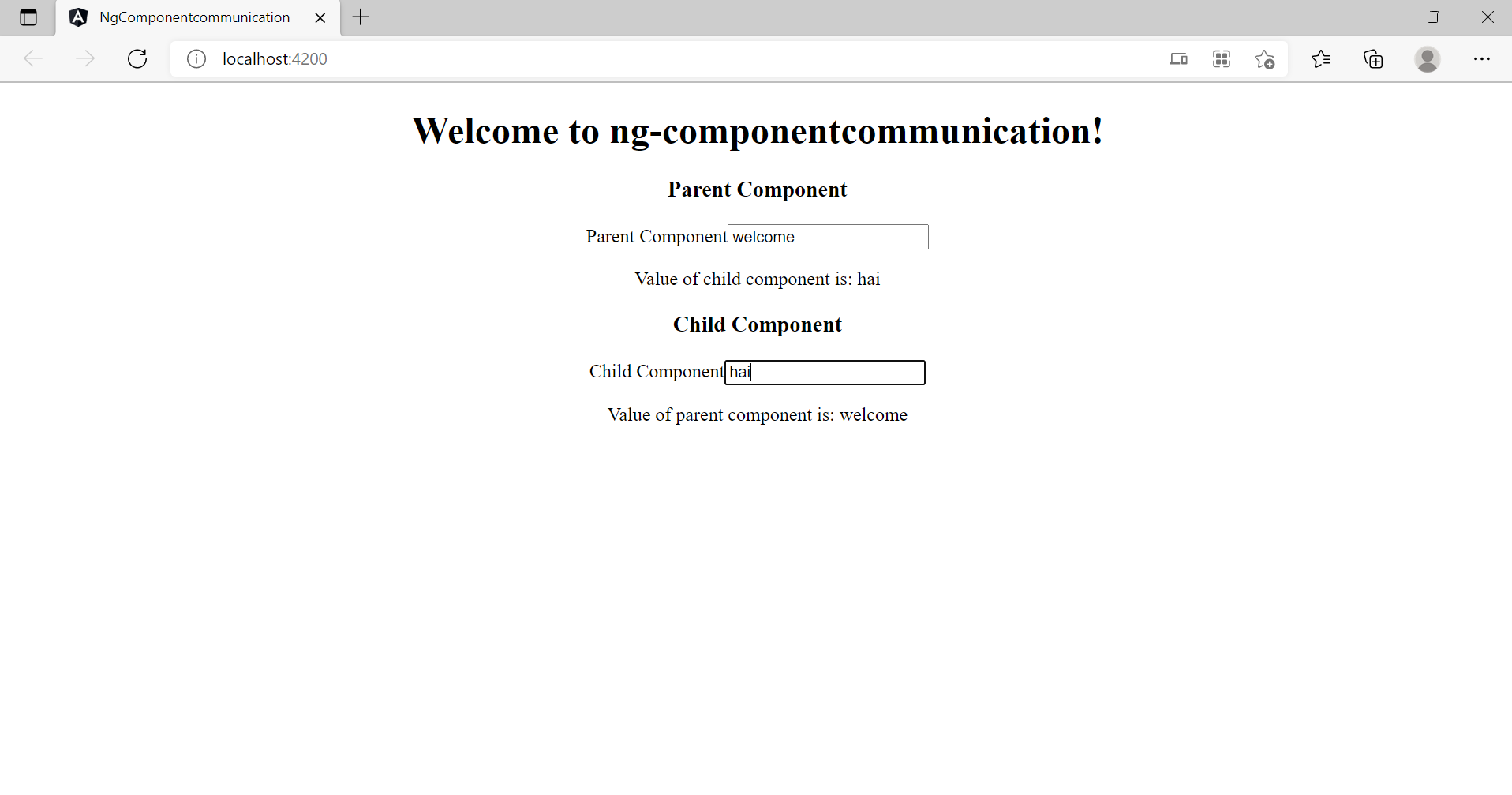
})

export class AppModule { }

**OUTPUT**

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