**RIGHT STROKE FULL STACK TRAINING**

**Week-3 Assessment Angular**

1. Develop a Angular Project that show cases One way and two way data binding (Property binding and Event Binding).

**Program:**

**One way Data Binding:**

**Property Binding:**

Html:

<div>

<h2>Click the button below to feel PropertyBinding</h2>

<a class="btn btn-warning" [href]="name">Property Binding</a>

</div>

Ts file:

export class SampleComponent implements OnInit {

  constructor() { }

  name: string="https://www.google.com/";

  ngOnInit(): void {

  }

}

**Event Binding:**

HTML:

<div>

    <h2>Click the button below to feel PropertyBinding</h2>

    <button class="btn btn-warning" type="button" (click)="onSubmit()">Event Binding</button>

</div>

Ts file:

export class SampleComponent implements OnInit {

  constructor() { }

  ngOnInit(): void {

  }

  onSubmit(){

    alert("Hello!!!!");

  }

}

**Two-way Data Binding:**

Html:

<div>

    <h2>Enter </h2>

    <input type="text" [(ngModel)]="text" placeholder="Enter text here">

    {{text}}

</div>

Ts file:

export class SampleComponent implements OnInit {

  constructor() { }

  text: string;

  ngOnInit(): void {

  }

 }

1. Develop a Angular Project that show cases the following Event binding :- a) Text Box’s key entry c) Text Box Key Enter d) Text Area Keyup +Shift +A b) Button on Click.

**Program:**

Html file:

<div>

    <input (keyup)="onKey($event)" placeholder="Enter Text Here">

         <br>

         <p>This is box key entry value is {{name}}</p>

</div>

-----------------------------------------------------------------

<div>

    <input #switch (keyup. enter)="onEnter(switch.value)" placeholder="Enter Text Here">

        <br>

        <p>This is switch key enter value is {{value}}</p>

</div>

-----------------------------------------------------------------

<div>

    <input #box (keydown.Shift.A)="onEnterShift(box.value)" placeholder="Enter Text Here">

    <br>

    <p>This is box keyup+shift+a is {{val}}</p>

</div>

-----------------------------------------------------------------

<div>

    <h2>Click the button below to feel Event Binding</h2>

    <button class="btn btn-warning" type="button" (click)="onSubmit()">Event Binding</button>

</div>

Ts file:

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

@Component({

  selector: 'app-sample',

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

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

})

export class SampleComponent implements OnInit {

  constructor() { }

  text:string;

  ngOnInit(): void {

  }

  name:any='';

  onKey(event:any){

    this.name=event.target.value;

  }

  value:any='';

  onEnter(value:string){

    this.value=value;

  }

  val:any='';

  onEnterShift(key:string){

    this.val=key;

  }

  onSubmit(){

    alert("Hello!!!!");

  }

}

1. Develop an Angular project that uses template reference variable for text box, text area and select drop down control

**Program:**

Html file:

<div class="container">

    <div>

        <select #select [(ngModel)]="selectedRanger" (change)="log(select.value)">

            <option \*ngFor="let ranger of rangers" [value]="ranger.id">{{ranger.rangerName}}</option>

        </select>

    </div>

    <br>

    <div>

        <button (click)="Str=''">Clear</button>

    </div>

    {{Str}}

</div>

Ts file:

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

@Component({

  selector: 'app-sample',

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

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

})

export class SampleComponent implements OnInit {

  ngOnInit(): void {

    throw new Error('Method not implemented.');

  }

  selectedRanger:number=0;

  public rangers:any=[

    {

      id:1,

      rangerName:'Conner McKnight',

      rangerType:'Red Dhino Ranger'

    },

    {

      id:2,

      rangerName:'Kira Ford',

      rangerType:'Yellow Dhino Ranger'

    },

    {

      id:3,

      rangerName:'Ethan James',

      rangerType:'Blue Dhino Ranger'

    }

  ];

  Str:String=''

  log(id:number)

  {

    for(var r of this.rangers)

    {

      if(r.id===+id)

      {

          this.Str=`You have opted ${r.rangerType} `;

      }

    }

   }

}

1. Develop a Angular Project with one child control. And pass data from parent control (ex app.component.ts) to the child data via property binding.

**Program:**

appcomponent.html:

<div class="container p-2">

    <app-sample \*ngFor="let ranger of Rangers" [value1]="ranger.fname"></app-sample>

</div>

appcomponent.ts:

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

@Component({

  selector: 'app-root',

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

  styleUrls: ['./app.component.css']

})

export class AppComponent {

  title = 'creditcard';

  Rangers=[

    {id:1,fname:"RedRanger"},

    {id:2,fname:"BlueRanger"},

    {id:3,fname:"GreenRanger"}

  ];

}

samplecomponent.html:

<p>The selected Ranger is {{value1}}</p>

samplecomponent.ts:

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

@Component({

  selector: 'app-sample',

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

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

})

export class SampleComponent implements OnInit {

  constructor(){}

  @Input()

  public value1:String;

  ngOnInit(): void {

  }

}

1. Develop a Angular Project that displays a list of Products details (id, name,description,cost) in a grid format. The solution should be able to display unique identifier for each record, and able to show even and odd record with efficient data update technique.

**Program:**

Html file:

<div class="container mt-5">

    <table class="table">

        <tr>

            <th>ID</th>

            <th>Product</th>

            <th>Description</th>

            <th>Cost</th>

            <th>Even</th>

            <th>Odd</th>

        </tr>

        <tr \*ngFor="let person of persons; even as e; odd as o">

            <td>{{person.Id}}</td>

            <td>{{person.Product}}</td>

            <td>{{person.Description}}</td>

            <td>{{person.Cost}}</td>

            <td>{{e}}</td>

            <td>{{o}}</td>

        </tr>

    </table>

<div class="row">

  <div class="col">

    <input type="number" class="form-control" placeholder="Id" [(ngModel)]="Id">

  </div>

  <div class="col">

    <input type="text" class="form-control" placeholder="Product Name" [(ngModel)]="Product">

  </div>

  <div class="col">

    <input type="text" class="form-control" placeholder="Description" [(ngModel)]="Description">

  </div>

  <div class="col">

    <input type="text" class="form-control" placeholder="Cost" [(ngModel)]="Cost">

  </div>

  <div class="col">

    <button class="btn btn-success btn-block" (click)="add(Id,Product,Description,Cost)">Add</button>

  </div>

</div>

</div>

Ts file:

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

@Component({

  selector: 'app-sample',

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

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

})

export class SampleComponent implements OnInit {

  constructor(){}

  title = 'angularAssignment1';

  persons = [

  ];

  Id:number;

  Product: String;

  Description:String;

  Cost:String;

  add(Id,Product,Description,Cost){

    this.persons.push({

      "Id":Id,

      "Product": Product,

      "Description":Description,

      "Cost":Cost

    });

    // resetting the input field

    this.Id = undefined;

    this.Product = "";

    this.Description="";

    this.Cost="";

  }

  ngOnInit(): void {

  }

}

1. Develop a Angular Project that displays a list of countries(ex India.Singapore,USA,UK) in a drop down, based on the selected country we need to display specific contents to the user. If India is selected, the page should display a section asking the user to enter the name and aadhaar number, if US is selected the page should display a section asking the user to enter SSN and Passport number, in case of UK, the user should see the section to enter only the password.

**Program:**

Html file:

<div class="container p-20">

    <h3>Please select the country:</h3>

    <select  [(ngModel)]="k">

      <option \*ngFor="let cnt of countries" [value]="cnt.Id">{{cnt.Country}}</option>

    </select>

  </div>

  <br>

  <div class="container">

    <div [ngSwitch]="k">

      <div \*ngSwitchCase="1">

        <div class="container">

          <div>

            <label>Enter the name:</label>

            <input type="text" class="form-control" placeholder="Username">

          </div>

          <div>

            <label>Enter the Aadhar number:</label>

            <input type="text" class="form-control" placeholder="Aadhar">

          </div>

        </div>

      </div>

      <div \*ngSwitchCase="2">

        <div class="container">

          <div>

            <label>Enter the SSN number:</label>

            <input type="number" class="form-control" placeholder="SSN number">

          </div>

          <div>

            <label>Enter the passport number:</label>

            <input type="number" class="form-control" placeholder="Passport number">

          </div>

        </div>

      </div>

      <div \*ngSwitchCase="3">

        <div class="container">

          <div>

            <label>Enter the Password:</label>

            <input type="password" class="form-control" placeholder="Password">

          </div>

      </div>

  </div>

  </div>

Ts file:

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

@Component({

  selector: 'app-sample',

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

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

})

export class SampleComponent implements OnInit {

  constructor(){}

  title = 'angularAssignment1';

  k:number=0

  countries=[

    {Id:1,Country:"India"},

    {Id:2,Country:"US"},

    {Id:3,Country:"UK"},

]

  ngOnInit(): void {

  }

}