**Lesson10 Angular form control value changes**

**Notes:-**

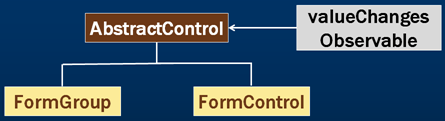
**Angular value Changes Observable**

**1-Both Form Control and Form Group classes inherit from the base Abstract Control class**

**2-AbstractControl class has value Changes property**

**3-value Changes property is an observable that emits an event every time the value of the control changes**

**4-To be able to monitor and react when the Form Control or Form Group value changes, subscribe to the value Changes observable**



**Example:-**

**In the following example we apply the value Changes event every time the value of textbox changes and we apply value Changes on the <form></form>**

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

// Import FormGroup and FormControl classes

import { FormGroup, FormControl,FormBuilder, Validators } from '@angular/forms';

import { ReactiveFormsModule } from '@angular/forms';

@Component({

selector: 'app-employee-react-comp',

templateUrl: './employee-react-comp.component.html',

styleUrls: ['./employee-react-comp.component.css']})

export class EmployeeReactCompComponent implements OnInit {

empForm:FormGroup;

constructor(private fb:FormBuilder) { }

ngOnInit() {

this.empForm = this.fb.group({

FullName : ['',[Validators.required,Validators.minLength(2),Validators.maxLength(10)]],

Email : [''],

skills : this.fb.group({

skillName: ['C#'],

experienceInYears:[''],

proficiency:['beginner']})})

//we can apply the form control FullName with event valueChanges

//that called with subscribe becouse it's Observable

this.empForm.get('FullName').valueChanges.subscribe(

value => {console.log('Form Control Value = '+value);});

//we can apply the form group with event valueChanges

//that called with subscribe becouse it's Observable

this.empForm.valueChanges.subscribe(

value => {

console.log('Form Group Values = '+JSON.stringify(value));});}

onSubmit(): void {

console.log(this.empForm.value);}

onLoadDataClick(): void {

this.empForm.setValue({

FullName: 'Pragim Technologies',

Email: 'pragim@pragimtech.com',

skills: {

skillName: 'C#',

experienceInYears: 5,

proficiency: 'beginner'

}});}}

**Subscribing to value Changes observable and there by monitoring a form control or form group allow us to do several things like**

**1-Implementing auto-complete feature**

**2-Dynamically validating form controls**

**3-Move validation messages from the view template to the component class**