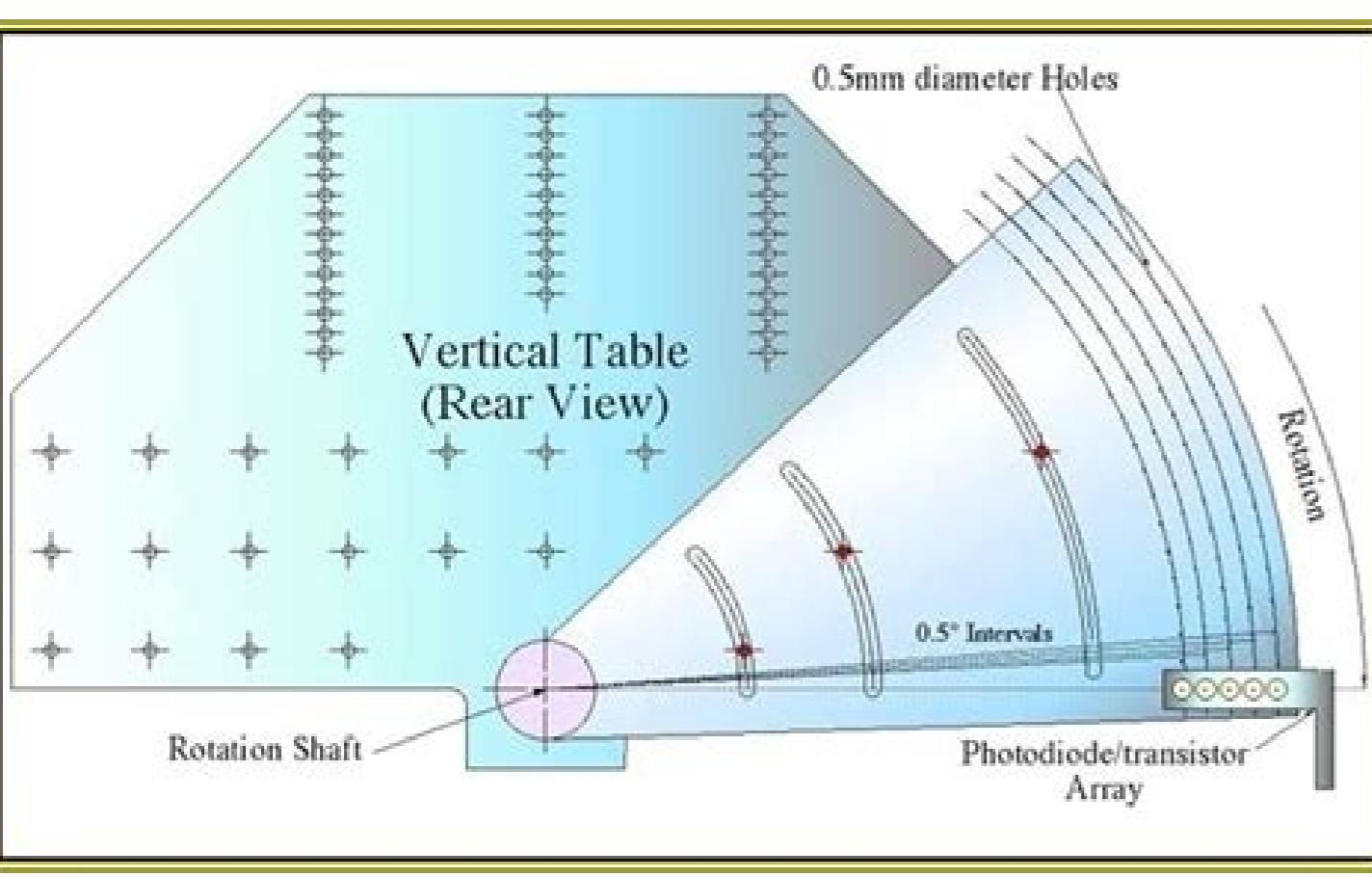


Continue

New | < Home Change Order Purchase Order

New Job

Job	Customer
Number <input type="text"/>	Status <input type="text"/>
Address <input type="text"/>	Customer Address <input type="text"/>
Name <input type="text"/>	City <input type="text"/>
City <input type="text"/>	
State <input type="text"/>	Zipcode <input type="text"/>
ESN <input type="text"/>	
ESN Super <input type="text"/>	C-PM <input type="text"/>
	C-Admin <input type="text"/>
	C-Super <input type="text"/>
	C-Accr <input type="text"/>
<ul style="list-style-type: none"> <input checked="" type="radio"/> Contact <input type="radio"/> Contacts <input type="radio"/> Items 	
Original Contract <input type="text"/>	Geofence <input type="checkbox"/>
Total CO <input type="text"/>	Job Class <input type="text"/>
Revised Contract <input type="text"/>	JobType <input type="text"/>
Retainage <input type="text"/>	Tax Exempt <input type="checkbox"/>
Budget <input type="text"/>	Iva Program <input type="text"/>
<input type="button" value="Close"/> <input type="button" value="Save"/>	



Line 20, Column 1	
Console	Coverage
Remote devices	Rendering
Search	What's New
Request blocking	
  top 	 Filter  Default levels 
16:09:29.066 Async pipe Subscribe ? - {"txtName":"j"}	
16:09:29.296 Async pipe Subscribe ? - {"txtName":"jo"}	
16:09:29.648 Async pipe Subscribe ? - {"txtName":"joh"}	
16:09:29.789 Async pipe Subscribe ? - {"txtName":"echo"}	

Arvind Rai, July 24, 2018 This page will walk through Angular valueChanges and statusChanges properties of FormControl, FormArray and FormGroup classes. valueChanges and statusChanges both return Observable instance and we can subscribe them to get data. valueChanges emits an event every time when the value of control changes either using UI or programmatically. statusChanges emits an event every time when the validation status of the control is recalculated. statusChanges gives current validation status of a control. valueChanges gives current value of a control. valueChanges can be used for conditional validation in reactive form. Here on this page we will create a reactive user form and provide examples for valueChanges and statusChanges using FormControl, FormArray and FormGroup classes. Contents Find the technologies being used in our example. 1. Angular 6.0.3 2. Angular CLI 6.0.3 3. TypeScript 2.7.2 4. Node.js 10.3.0 5. NPM 6.1.0 valueChanges is a property of AbstractControl that emits an event every time when the value of control changes either using UI or programmatically. valueChanges property is available in FormControl, FormArray and FormGroup classes because they inherit AbstractControl class. valueChanges property has been declared as following. get valueChanges: Observable We can see that it returns Observable of any type. We can subscribe valueChanges to get data. 1. If we subscribe valueChanges of a FormControl instance, we get latest value of that control whenever there is any change. 2. If we subscribe valueChanges of a FormArray instance, we get latest value of those array controls whenever there is any change. 3. If we subscribe valueChanges of a FormGroup instance, we get latest value of the form controls whenever there is a change in any control of the form. statusChanges is a property of AbstractControl that emits an event every time when the validation status of the control is recalculated. statusChanges property is available in FormControl, FormArray and FormGroup classes because they inherit AbstractControl class. statusChanges property has been declared as following. get statusChanges: Observable The return type of statusChanges is Observable of any type. 1. If we subscribe statusChanges of a FormControl instance, we get latest validation status of that control whenever validation status is recalculated for that control. 2. If we subscribe statusChanges of a FormArray instance, we get latest validation status of those array controls whenever validation status is recalculated for those array controls. 3. If we subscribe statusChanges of a FormGroup instance, we get latest validation status of the form controls whenever validation status is recalculated in any control of the form. We will create a reactive user form for our demo using FormBuilder. userForm: FormGroup; constructor(private formBuilder: FormBuilder) { } Find the user form. this.userForm = this.formBuilder.group({ username: ['', [Validators.required]], password: ['', [Validators.required]], notificationMode: ['', [Validators.required]], email: '', mobileNumber: '', favoriteLocations: this.formBuilder.array([this.formBuilder.control('', [Validators.required])]) }); 1. Find the sample code for valueChanges with FormControl this.userForm.get('username').valueChanges.subscribe(uname => { console.log('Username changed:' + uname); }); If we create a getter property for our control as following get username() { return this.userForm.get('username'); } Then we can call valueChanges as given below. this.username.valueChanges.subscribe(uname => { console.log('Username changed:' + uname); }); Above code will execute for every time whenever username control changes. 2. Find the sample code for valueChanges with FormArray this.userForm.get('favoriteLocations').valueChanges.subscribe(data => { console.log('favoriteLocations: ' + data); }); If we create a getter property for our control as following get favoriteLocations() { return this.userForm.get('favoriteLocations'); } Then we can call valueChanges as given below. this.favoriteLocations.valueChanges.subscribe(data => { console.log('favoriteLocations: ' + data); }); Above code will execute for every time whenever favoriteLocations control changes. 3. Find the sample code for valueChanges with FormGroup this.userForm.valueChanges.subscribe(user: User => { console.log('username: ' + user.username); console.log('Password: ' + user.password); }); Whenever there is change in value in any control of the userForm, above code will execute. 1. Find the sample code for statusChanges with FormControl this.userForm.get('username').statusChanges.subscribe(status => { console.log('Username validation status: ' + status); }); If we create a getter property for our control as following get username() { return this.userForm.get('username'); } Then we can call statusChanges as given below. this.username.statusChanges.subscribe(status => { console.log('Username validation status: ' + status); }); The above code will execute whenever the validation status of username is recalculated. 2. Find the sample code for statusChanges with FormArray this.userForm.get('favoriteLocations').statusChanges.subscribe(status => { console.log('favoriteLocations validation status: ' + status); }); If we create a getter property for our control as following get favoriteLocations() { return this.userForm.get('favoriteLocations'); } Then we can call statusChanges as given below. this.favoriteLocations.statusChanges.subscribe(status => { console.log('favoriteLocations validation status: ' + status); }); Above code will execute if validation status of favoriteLocations is recalculated. 3. Find the sample code for statusChanges with FormGroup this.userForm.statusChanges.subscribe(status => { console.log('Form validation status: ' + status); }); The above code executes whenever the userForm validation status is recalculated. We can perform conditional validation using valueChanges property in reactive form. For the demo, suppose we have password and confirm password fields in our user form. The confirm password must match with password and if the value in password field changes, the confirm password must be recalculated. this.password.valueChanges.subscribe(pwd => { this.confirmPassword.setValidators([Validators.required, confirmPasswordValidator(pwd)]); this.confirmPassword.updateValueAndValidity(); }); this.confirmPassword.valueChanges.subscribe(() => { const pwd = this.password.value; this.confirmPassword.setValidators([Validators.required, confirmPasswordValidator(pwd)]); confirmPasswordValidator is a custom validator that validates if password and confirm password are matched or not. Find the project structure of our demo application. my-app | --src | | | | --app | | | | --customValidators | | | | | --confirm-password-validator.ts | | | | | --pwd-match-username-validator.ts | | | | | --reactive-form.component.ts | | | | --reactive-form.component.html | | --user.ts | | | | --app.component.ts | | --app.module.ts | | --main.ts | | --index.html | | --styles.css | | --node_modules | --package.json Find the complete code. reactive-form.component.ts import { Component, OnInit } from '@angular/core'; import { FormGroup, FormBuilder, Validators } from '@angular/forms'; import { Observable } from 'rxjs'; import { User } from './user'; import { pwdMatchUsernameValidator } from './customValidators/pwd-match-username-validator'; import { confirmPasswordValidator } from './customValidators/confirm-password-validator'; @Component({ selector: 'app-reactive-form', templateUrl: './reactive-form.component.html' }) export class ReactiveFormComponent implements OnInit { userForm: FormGroup; constructor(private formBuilder: FormBuilder) { } ngOnInit() { this.userForm = this.formBuilder.group({ username: ['', [Validators.required]], password: ['', [Validators.required]], notificationMode: ['', [Validators.required]], email: '', mobileNumber: '', favoriteLocations: this.formBuilder.array([this.formBuilder.control('', [Validators.required])]) }); this.handleFormChanges(); } handleFormChanges() { this.userForm.valueChanges.subscribe((user: User) => { console.log('---Form Data---'); console.log('username: ' + user.username); console.log('password: ' + user.password); console.log('notificationMode: ' + user.notificationMode); console.log('email: ' + user.email); console.log('mobileNumber: ' + user.mobileNumber); console.log('favoriteLocations: ' + user.favoriteLocations); console.log('---End Form Data---'); }); this.userForm.statusChanges.subscribe(status => { console.log('Form validation status: ' + status); }); this.username.statusChanges.subscribe(status => { console.log('Username validation status: ' + status); }); this.username.valueChanges.subscribe(uname => { this.password.setValidators([Validators.required, pwdMatchUsernameValidator(uname)]); this.password.updateValueAndValidity(); }); this.password.valueChanges.subscribe(pwd => { const uname = this.username.value; this.password.setValidators([Validators.required, confirmPasswordValidator(pwd)]); this.confirmPassword.setValidators([Validators.required, confirmPasswordValidator(pwd)]); this.confirmPassword.updateValueAndValidity(); }); this.confirmPassword.valueChanges.subscribe(() => { const pwd = this.password.value; this.confirmPassword.setValidators([Validators.required, confirmPasswordValidator(pwd)]); this.confirmPassword.updateValueAndValidity(); }); this.notificationMode.valueChanges.subscribe(mode => { console.log('NotificationMode Mode: ' + mode); if (mode === 'email') { this.email.setValidators([Validators.required, Validators.email]); this.mobileNumber.clearValidators(); } else if (mode === 'mobile') { this.mobileNumber.setValidators([Validators.required, Validators.email]); this.email.clearValidators(); } else if (mode === 'both') { this.email.setValidators([Validators.required, Validators.email]); this.mobileNumber.setValidators([Validators.required]); this.email.updateValueAndValidity(); this.mobileNumber.updateValueAndValidity(); } }); this.favoriteLocations.valueChanges.subscribe(data => { console.log('favoriteLocations: ' + data); }); this.favoriteLocations.statusChanges.subscribe(status => { console.log('favoriteLocations validation status: ' + status); }); } onFormSubmit() { console.log(this.userForm.value); this.userForm.reset(); } getUsername() { return this.userForm.get('username'); } getPassword() { return this.userForm.get('password'); } get confirmPassword() { return this.userForm.get('confirmPassword'); } getEmail() { return this.userForm.get('email'); } get mobileNumber() { return this.userForm.get('mobileNumber'); } get notificationMode() { return this.userForm.get('notificationMode'); } get favoriteLocations() { return this.userForm.get('favoriteLocations'); } } reactive-form.component.html

User Form

Username: * Username required. Password: * Password required. Password can not be same as Username. Confirm Password: * Confirm Password required. Confirm Password not matched. Notification Mode: * Email Mobile Both Email: Email required. Email not valid. Mobile Number: Mobile number required. Favorite Locations: * Submit user.ts
export class User { username: string; password: string; notificationMode: string; email: string; mobileNumber: string; favoriteLocations: string[]; } confirm-password-validator.ts import { Directive } from '@angular/core'; import { AbstractControl, ValidatorFn } from '@angular/forms'; export function confirmPasswordValidator(confirmPassword: string): ValidatorFn { return (control: AbstractControl): {[key: string]: any} | null => { let password: string = control.value; let isValid = (password !== confirmPassword) ? true : false; return isValid ? {'cnfPassword': {value: 'Invalid'}} : null; }; } pwd-match-username-validator.ts import { Directive } from '@angular/core'; import { AbstractControl, ValidatorFn } from '@angular/forms'; export function pwdMatchUsernameValidator(username: String): ValidatorFn { return (control: AbstractControl): {[key: string]: any} | null => { let password: string = control.value; let isValid = (password === username) ? true : false; return isValid ? {'matchForUsername': {value: 'invalid'}} : null; }; } app.component.ts import { Component } from '@angular/core'; @Component({ selector: 'app-root', template: `` }) export class AppComponent {} app.module.ts import { NgModule } from '@angular/core'; import { BrowserModule } from '@angular/platform-browser'; import { ReactiveFormsModule } from '@angular/forms'; import { AppComponent } from './app.component'; import { ReactiveFormComponent } from './reactive-form.component'; @NgModule({ imports: [BrowserModule, ReactiveFormsModule], declarations: [AppComponent, ReactiveFormComponent], providers: [], bootstrap: [AppComponent] }) export class AppModule {} styles.css table { border-collapse: collapse; } table, th, td { border: 1px solid black; } .error { color: red; } .success { color: green; } To run the application, find the steps. 1. Download source code using download link given below on this page. 2. Use downloaded src in your Angular CLI application. To install Angular CLI, find the link. 3. Run ng serve using command prompt. Access the URL. In our demo application, whenever there is any change in value and validation status of form controls, we will see logs in console. We have created some conditional validations in our example and that are Username and password cannot be same, password and confirm password must match. We need to select notification type and

Access the URL in our demo application, whenever there is any change in value and validation status of form controls, we will see logs in console. We have created some conditional validations in our example and that are Username and password cannot be same, password and confirm password must match. We need to select notification type and accordingly we are required to enter data in email or mobile number or both fields. We need to enter favorite locations. Whenever we enter or delete data in form controls, we will see output in console for their current value and validation status. AbstractControl FormControl FormArray FormGroup angular-valuechanges-and-statuschanges.zip
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