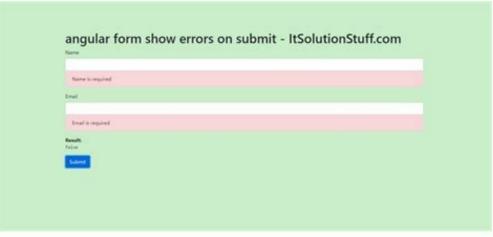
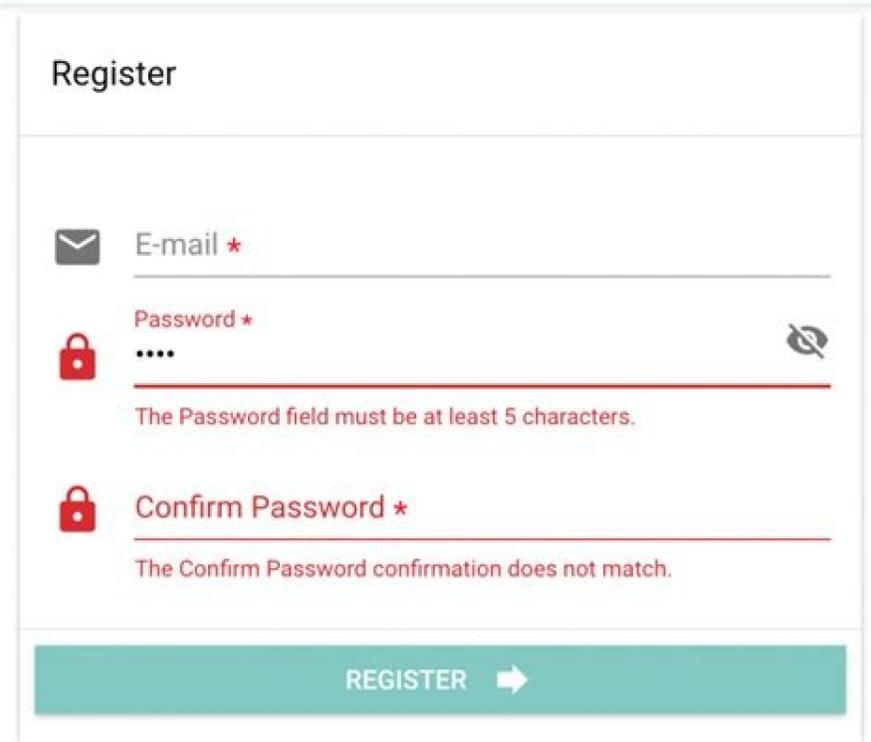
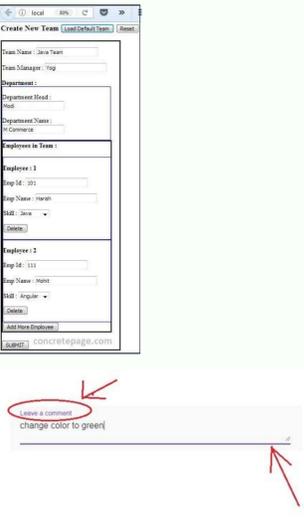


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In this tutorial, I will show you how to implement Angular 12 Form Validation example (and Submit) with Reactive Forms Module and Bootstrap 4. More Practice: - Angular 12 Template Driven Forms Validation example - Angular File upload example with progress bar - Angular CRUD Application example with Web API - Angular JWT Authentication example with Web Api/Serverless with Firebase: - Angular Firebase CRUD Realtime DB | Angular Firestore Database - Angular Firestore CRUD example | Angular Firestore - Angular File Upload Firebase Storage: Display/Delete Files example Newer version: Angular 13 Form Validation example (Reactive Forms) Overview of Angular 12 Form Validation example We will implement validation for a Angular Form using Reactive Forms Module and Bootstrap. The form has: Full Name: required, Username: required, from 6 to 20 characters, Email: required, email format, Password: required, from 6 to 40 characters, Confirm Password: required, same as Password, Accept Terms, Checkbox: required, Some fields could be wrong: Successful Submission will look like this: Technology We're gonna use following modules: Angular 12 Bootstrap 4 @angular/forms 12 Setup Project First we need to add the ReactiveFormsModule into our App Module. Open src/app/app.module.ts and import ReactiveFormsModule from @angular/forms: import { NgModule } from '@angular/core'; import { BrowserModule } from '@angular/platform-browser'; import { ReactiveFormsModule } from '@angular/forms'; import { AppComponent } from './app.component'; @NgModule({ declarations: [AppComponent], imports: [BrowserModule, ReactiveFormsModule], providers: [], bootstrap: [AppComponent] }) export class AppModule { } import Bootstrap 4 Open src/index.html and add following line to tag: ... Form Validation with Angular 12 Reactive Forms The app component contains Form Validation example built with the @angular/forms version 12. Open app/app.component.ts, we're gonna import necessary library first: import { Component, OnInit } from '@angular/core'; import { AbstractControl, FormBuilder, FormGroup, Validators } from '@angular/forms'; import Validation from './utils/validation'; We use Angular FormBuilder to create a FormGroup object (form property) which is then bound to the template element (using the [formGroup] directive later). Validators provides a set of built-in validators (required, minLength, maxLength, ...) that can be used by form controls. A validator is a function that processes a FormControl or collection of controls and returns an error map or null (meaning validation has passed). Validation is our custom class that provides custom validator function. I will explain it later. export class AppComponent implements OnInit { form: FormGroup; submitted = false; constructor(private fb: FormBuilder) { ngOnInit(); void { this.form = this.fb.group({ fullname: ['', Validators.required], username: ['', Validators.required], password: ['', [Validators.required, Validators.minLength(6), Validators.maxLength(40)]], confirmPassword: ['', Validators.required], acceptTerms: [false, Validators.requiredTrue] }, { validators: [Validation.match('password', 'confirmPassword')] }); } ... } We also have getter f to access form controls (form.controls) from the template. For example, we can get username field in the template using f.username instead of form.controls.username. The submitted property helps us to check whether the form is submitted or not. export class AppComponent implements OnInit { form: FormGroup; submitted = false; constructor(private fb: FormBuilder) { ngOnInit(); void { ... } get f(): { [key: string]: AbstractControl } { return this.form.controls; } onSubmit(): void { this.submitted = true; if (this.form.invalid) { return; } console.log(JSON.stringify(this.form.value, null, 2)); } onReset(): void { this.submitted = false; this.form.reset(); } } Angular 12 Form Validation template Now we create the form with input fields and validation messages. We bind to the FormGroup object (form) in the app component using [formGroup] directive. Form submit event will call onSubmit() handler above using event binding (ngSubmit). Validation messages will display after form submission for the first time by submitted property. app/app.component.html Full Name Fullname is required Username Username is required Password Password must be at least 6 characters Confirm Password Confirm Password must be at least 6 characters Accept Terms Accept Terms must be checked Reset Reset Confirm Password Confirm Password does not match I have read and agree to the Terms Accept Terms is required Register Reset Confirm Password validation in Angular 12 Now we will use Angular Custom Validator to implement password and confirm password validation. - First, the validator returns null (meaning validation has passed) if there is any error on the control that we want to check (confirm password). - Then, the validator checks that two fields match or not and set error on checking control if validation fails. import { AbstractControl, ValidatorFn } from '@angular/forms'; export default class Validation { static match(controlName: string, checkControlName: string): ValidatorFn { return (controls: AbstractControl) => { const control = controls.get(controlName); const checkControl = controls.get(checkControlName); if (checkControl.errors && !checkControl.errors.matching) { return null; } if (control.value !== checkControl.value) { controls.get(checkControlName).setErrors({ matching: true }); } else { return null; } } } } Run Angular 12 Form Validation App you can run our app with command: npm start. If the process is successful, open browser with url: and check it. Or run on Stackblitz. Conclusion Today we've built Angular 12 Form Validation example successfully with Reactive Forms Module & Bootstrap 4. You can also use the Form Validation in following posts: - Angular File upload example with progress bar - Angular CRUD Application example with Web API - Angular JWT Authentication example with Web Api Or use Template Driven Forms instead: Angular 12 Template Driven Forms Validation example Happy learning! See you again. 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