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Angular 4 template form example

Model-based angular shapes is one of two ways to build angular shapes. In this tutorial, we'll learn how to build an example application of simple template-driven forms. First, we build a simple HTML form using a few form elements. The ngForm directive will convert it into a template-driven form and create high-level formgroup control. Then we use the ngModel directive to create the FormControl instance for each of the HTML elements. Later, we will learn how to submit the form data to the component class. We will also learn how to boot or reset the form data and how to use the data link to access the component class data. Applies to: Angular 2 to the last edition of i.e. Angular 8. Angular 9, Angular 10, Angular 11If you haven't gone through our angular shapes tutorial, we highly recommend you do so. In this article. we have covered the fundamental concepts of the angular shape module. What is the model-based form? In template driven forms, we specify behaviors/validations using guidelines and attributes in our model and let it work behind the scenes. All things happen in models, so very little code is needed in the component class. This is different from reactive forms, where we define logic and controls in the component class. Model-based forms The form is configured using ngForm guidelines are configured using the ngModel directivengModel also provides data in both directions bindingS validations are configured in the model via guidelinesThe partemplate driven forms are not very much code in The component class Easier to set up While they areDifficult to add dynamic controls that test is a challengeCreate the example ApplicationUse ng again to create a new tdf applicationng --routing-true --style-cssRun ng serve and check if everything is installed correctly. Import FormsModuleTo work with template-driven forms, we need to import the FormsModule. We usually import it into the root module or a shared module. The FormsModule contains all the form guidelines and constructions to work with formsOpen the app.module.ts and add the 'FormsModule' import of '@angular/forms'; to her. And also add the FormsModule to imports metadata ownership tableimport - BrowserModule - from '@angular/platform-browser';import 'NgModule' from '@angular/core';import 'FormsModule' from '@angular/forms'; import FormsModuleimport - AppRoutingModule - from './app-routing.module';import 'AppComponent' from FormsModule //Add in Imports Array bootstrap: [AppComponent]export class AppModule - HTML FormThe first task is to build the model. The following is a regular HTML form. We lock it in a label. We included two text entries (first name and surname), an email (e-mail), a radio button (sex), a checkbox (isMarried) and a selected list (country). These are elements of form. Label for Firstname/label/label-the-same type-text id-firstname name-firstname for lastname <input type=text id=lastname name=lastname><label for=email>Courrier électronique</label><input type=text id=email name=email><label for=gender>Geneder (Geneder)</label><input type=radio value=male id=gender name=gender> Mâle <input type=radio value=female id=gender name=gender>Femme <label for=isMarried>mariée</label><input type=checkbox id=isMarried name=isMarried><label for=country>pays</label><select name=country id=country><option selected= value=><option [ngvalue]=c.id *ngfor=let c of countryList><button type=submit>Soumettre</button> Classimport de composant { Composant } de '@angular/core'; templateUrl: './app.component.html', styleUrls: ['./app.component.css']export class AppComponent - title -Template 'driven forms'; countryList:country[] - [new country1, India), new country ('3', 'England') constructor (id:string, name:string) 'ngFormOnce, we have a form with few elements of form, the angular automatically converts it into a template-driven form. This is done by the ngForm directive. The ngForm directive is what makes model-based angular forms work. But we don't need to add it explicitly. Angular automatically adds itWhen we include FormsModule, the Angular will pay attention to any form in our HTML model. Angular does this via the ngForm directive. ngForm directive automatically detects the label and automatically binds to it. You have nothing to do on your part to invoke and link the ngForm directive. The ngForm makes the followingBinds itself to the directiveCree a high-level FormGroup instanceCreatesFormControl proceeding for each of the child's controls, which has the ngModel directive. Create theFormGroup instance for each of the NgModelGroup guidelines. We can export the ngForm instance to a local model variable using ngForm as a key (e.g.: #contactForm-ngForm). This allows us to access the many properties and methods of ngForm using the variable Contact ModelFormHence, update the form item as shown below #contactform. It represents a single entry field in an angular form. The angular shapes module connects the input element to a FormControl. We use the FormControl instance to track the value, user interaction and validation status of an individual form item. Each individual form item is a FormControlWe have six form elements in our HTML model. They are first name, surname, e-mail, sex, isMarried and country. We have to link them to the FormControl instance. To do this, we use the ngModel directive. Add the ngModel directive to each check below. Submit FormNow have the model ready, except for the final part i.e. submit data to the component. We use the ngSubmit event, to submit the form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/form/forms/forms/forms data to the component class. We use the event link (parentheses) to link ngSubmit to the OnSubmit method in the component class. When the user clicks the submit button, the event ngSubmit-lt;form #contactform-ngForm (ngsubmit)-onSubmit (contactForm)- We pass the local contactForm variable model into the onSubmit method. contactForm holds the reference to the ngForm directive. We can use it in our component class to extract data from form fields. Final modelOur final model is as shown below #contactform. label for-lastname/Label-label--input type-text name-lastname ngmodel for-email/label Male label for-gender -Geneder (Geneder)/label-label for-isMarried label -the input type-checkbox name-isMarried ngmodel Receiving the form dataWe must receive the data in the component class at from our form. To do this, we need to create the onSubmit method in our component class. The method of submitting receives reference to the ngForm directive, which we have named is as contactForm. ContactForm exposes the value method that returns form fields as a Json object. console.log (contactForm.value); You can print the value of the console using the console.log (contactForm.value)Run the code now and enter certain data into the form. Open the developer console in your browser and check the output, when you submit the data.email instance:Angular template-driven forms in ActionLocal VariableWe can assign the ngForm, FormControl or FormGroup instance to a local model variable. This allows us to verify the status of the form as if the form is valid, submitted, and the value of the form items, etcngFormWe have access to the ngForm instance via the variable local model #contactForm.-form #contactform-ngForm (ngsubmit)onSubmit (contactForm) Now we can make use of some of the properties and methods to know the state of the form. By 'lt'button type-submit example, submit to pre-report: The value property returns the item containing the value of each FormControlvalid. returns false.touched: True if the user has entered a value in at least in a field.submitted: Returns true if the form is submitted. another fake. FormControlSimilarly, we can also access the FormControl instance by assigning the ngModel to a local variable as shown below. Form/form/forms/forms name-firstname #fname-ngModel ngModel-Now, the variable #fname holds the reference to the first name FormControl. We can then access FormControl properties as a valid, isvalide, tocuhed #fname etc. #contactform Pre-Form(ngsubmit)-onSubmit (contactForm) We can add a new FormGroup using the ngModelGroup directive. Let's add street form checks, city and Pincode and group them under the address FormGroupAll you have to do is to enclose the fields inside a div element with the directive ngModelGroup applied on as shown below group-address-label for-city/label-the-a-link type-text name-city ngmodel /label-the-type-input-text name-street ngmodel ngmodel forms/forms/divt;/forms

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