Module 9: Validating Angular Forms

Demo Document 1 – Template driven user registration form with validation

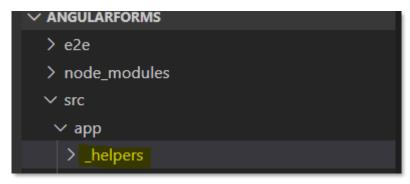
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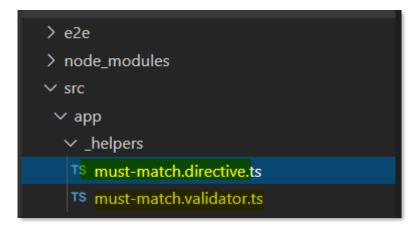
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Creating Template driven user registration form and add validation to form In this demo, we will see how to add validation for different fields for template driven form created in module 8 demo 1

- Step 1: Open project Module8-Demo1, created in module 8 demo1
- Step 2: Create "_helpers" folder under the app folder as shown below.



Step 3- Create must-match directive and must-match validator files as shown below.



Purpose of this is to validate fields in forms. It verifies if the password entered in the confirm password field matches the password entered in the password field. If you enter different password in password and confirm password fields then must match directive will trigger error message.

Step 4 – The must-match.directive.ts contains the below code

```
import { Directive, Input } from '@angular/core';
import { NG_VALIDATORS, Validator, ValidationErrors, FormGroup } from '@angular/fo
rms';

import { MustMatch } from './must-match.validator';

@Directive({
    selector: '[mustMatch]',
    providers: [{ provide: NG_VALIDATORS, useExisting: MustMatchDirective, multi:
true }]
})

export class MustMatchDirective implements Validator {
    @Input('mustMatch') mustMatch: string[] = [];

    validate(formGroup: FormGroup): ValidationErrors {
        return MustMatch(this.mustMatch[0], this.mustMatch[1])(formGroup);
    }
}
```

Step 5 – The must-match.validator.ts contains the below code

```
import { FormGroup } from '@angular/forms';

// custom validator to check that two fields match
export function MustMatch(controlName: string, matchingControlName: string) {
    return (formGroup: FormGroup) => {
        const control = formGroup.controls[controlName];
        const matchingControl = formGroup.controls[matchingControlName];

        // return null if controls haven't initialised yet
        if (!control || !matchingControl) {
            return null;
        }

        // return null if another validator has already found an error on the matchingControl
        if (matchingControl.errors && !matchingControl.errors.mustMatch) {
            return null;
        }

        // set error on matchingControl if validation fails
        if (control.value !== matchingControl.value) {
            matchingControl.setErrors({ mustMatch: true });
        }
}
```

```
} else {
          matchingControl.setErrors(null);
     }
}
```

Step 6- Open app.module.ts file and import must match directive as below.

```
TS template-driven.component.ts
                                TS app.module.ts X
                                                   TS must-match.validator.ts
src > app > TS app.module.ts > ...
 import { BrowserModule } from '@angular/platform-browser';
      import { NgModule } from '@angular/core';
      import { FormsModule } from '@angular/forms';
      import { MustMatchDirective } from './_helpers/must-match.directive';
      import { AnnRoutingModule } from './ann-routing.module';
      import { (alias) class ReactiveComponent ent';
      import { import ReactiveComponent
                                                 /template-driven/template-driven.component';
      import { ReactiveComponent } from './reactive/reactive.component';
      import { ReactiveFormsModule } from '@angular/forms';
      @NgModule({
        declarations: [
          AppComponent,
          MustMatchDirective,
          TemplateDrivenComponent,
          ReactiveComponent
```

Step 7- Open template-driven.component.ts file and create a "onSubmit()" method

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

@Component({
    selector: 'app-template-driven',
    templateUrl: './template-driven.component.html',
    styleUrls: ['./template-driven.component.css']
})
export class TemplateDrivenComponent implements OnInit {

    model: any = {};
    onSubmit() {
        alert('SUCCESS!! :-)\n\n' + JSON.stringify(this.model, null, 4));
    }

    constructor() { }

    ngOnInit() {
    }
}
```

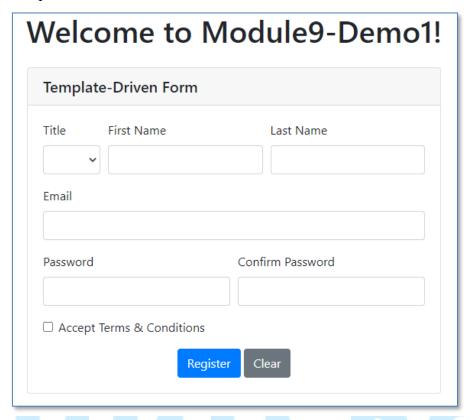
Step 8- Open template-driven.component.html and add built-in validators to validate the form fields.

Add mustmatch directive for password validation

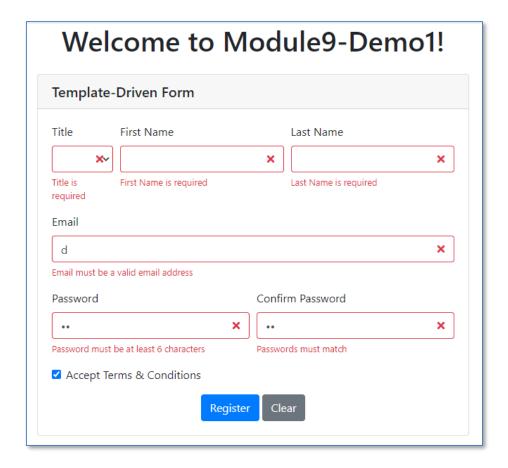
Note that we are adding all validation in .html file for template driven form

Step 9- Run app using ng serve

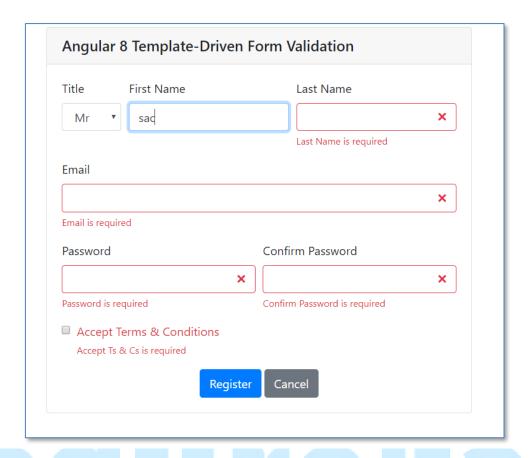
• This will open below window



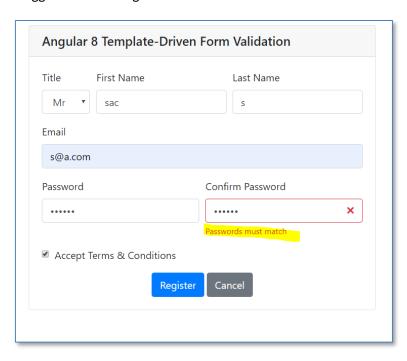
• Now click on register button, you will see that all validation messages will be triggered as below



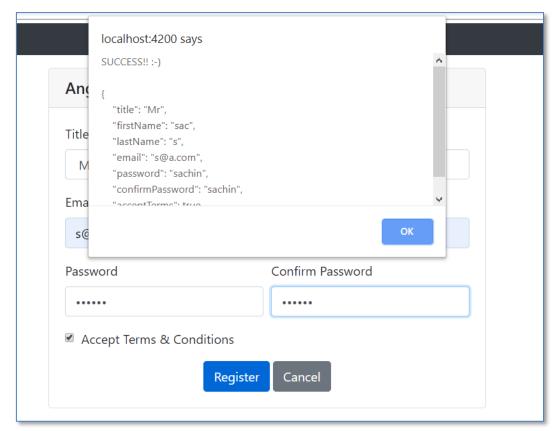
Once you start adding values to fields validation errors will be removed



 If you enter different password in password and confirm password fields then must-match directive will trigger error message



Step 10 – Once all errors are corrected and form is submitted it will show success popup as shown below



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