

ANGULAR 2 FUNDAMENTALS

December 13, 2017

PART 17

FORMS: CODE DRIVEN

CODE DRIVEN

- ➤ Angular also provides a code driven way to do forms
- ➤ To use code driven we have to import ReactiveFormsModule instead of FormsModule
- ➤ Open app.module.ts and import Find:

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

> Replace:

```
import {FormsModule, ReactiveFormsModule} from '@angular/forms';
```

CODE DRIVEN

➤ Add it to imports:

```
imports: [
  routes,
  BrowserModule,
  FormsModule,
  ReactiveFormsModule,
  HttpModule
```

LET US START BUILDING FORMS

- ➤ ng g c admin-user-create
- ➤ Open admin.routes.ts and add

```
export const adminRoutes: Routes = [
    { path: '', component: DashboardComponent},
    { path: 'images', component: AdminImageListComponent},
    { path: 'images/create', component: AdminImageCreateComponent},
    { path: 'images/edit/:id', component: AdminImageEditComponent },
    { path: 'images/delete/:id', component: AdminImageDeleteComponent },
    { path: 'users/create', component: AdminUserCreateComponent},
};
```

➤ Don't forget to import:

```
import {AdminUserCreateComponent} from './admin-user-create/admin-user-create.componen
t';
```

➤ We can use a helper class called FormBuilder

ADMIN-USER-CREATE.COMPONENT.TS

➤ Import:

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

> Find:

```
export class AdminUserCreateComponent implements OnInit {
```

➤ Add below:

```
userForm: FormGroup;
```

➤ Find:

```
constructor() { }
```

ADMIN-USER-CREATE.COMPONENT.TS

➤ Replace:

```
constructor(fb: FormBuilder) {
  this.userForm = fb.group({
    email: fb.control(''),
    name:fb.control(''),
    password: fb.control('')
  });
}
```

EXPLANATION

➤ We created a new userForm

```
userForm: FormGroup;
```

➤ Then we inject FormBuilder

```
constructor(fb: FormBuilder) {
```

- ➤ We use fb.group to create a group which contains several controls like email, username etc.
- > fb.control means the value of the field
- Finally we can bind those controls to input fields in our view

ADMIN-USER-CREATE.COMPONENT.HTML

ADMIN-USER-CREATE.COMPONENT.HTML

```
<div class="col-md-10 col-md-offset-1">
 <div class="well well bs-component">
    <form novalidate class="form-horizontal" (ngSubmit)="createUser()" [formGroup]="us</pre>
erForm">
      <fieldset>
        <legend>Add a new user</legend>
        <div class="form-group">
          <label for="email" class="col-lg-2 control-label">Email</label>
          <div class="col-lg-10">
            <input type="text" class="form-control" id="email" name="email" placeholder</pre>
="Email of the user" formControlName="email">
          </div>
        </div>
        <div class="form-group">
          <label for="name" class="col-lg-2 control-label">Full name</label>
          <div class="col-lg-10">
            <input type="text" class="form-control" id="name" name="name" placeholder="</pre>
Name of the user formControlName="name">
          </div>
        </div>
        <div class="form-group">
          <label for="password" class="col-lg-2 control-label">Password</label>
          <div class="col-lg-10">
            <input type="password" class="form-control" id="password" name="password"</pre>
placeholder="Password" formControlName="password">
          </div>
        </div>
```

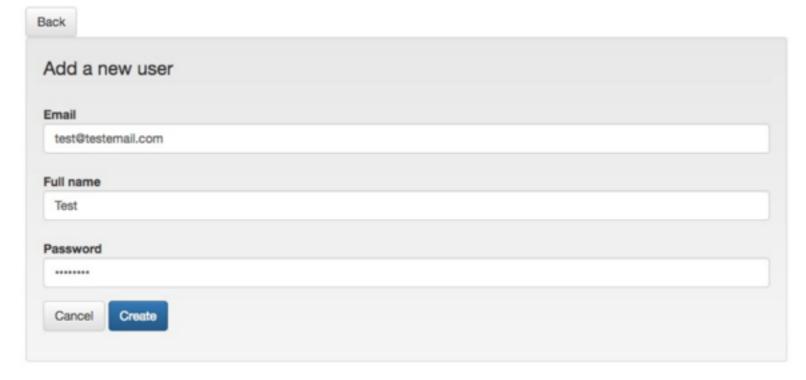
ADMIN-USER-CREATE.COMPONENT.HTML

LET'S MAKE THE CREATE USER METHOD

➤ Open admin-user-create.component.ts add:

```
createUser() {
  console.log(this.userForm.value);
}
```

➤ Go to http://localhost:4200/admin/users/create check console



FORM VALIDATION

Validators.required: the control should not be empty.

Validators.minLength(number): the control should have at least number of characters.

Validators.maxLength(number): the control should have at most number of characters.

Validators.pattern(pattern): the control must match the regular expression pattern.

HOW TO USE VALIDATORS

➤ Open admin-user-create.component.ts find:

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

➤ Update:

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

➤ After that we can add some rules:

```
constructor(fb: FormBuilder) {
  this.userForm = fb.group({
    email: fb.control('', [Validators.required, Validators.minLength(3)]),
    name:fb.control('', [Validators.required, Validators.minLength(3)]),
    password: fb.control('', [Validators.required, Validators.minLength(6)])
  });
}
```

> Find:

```
<button type="submit" class="btn btn-primary">Create</button>
```

➤ Modify to:

```
<button type="submit" class="btn btn-primary" [disabled]="userForm.invalid">Create</bu
tton>
```

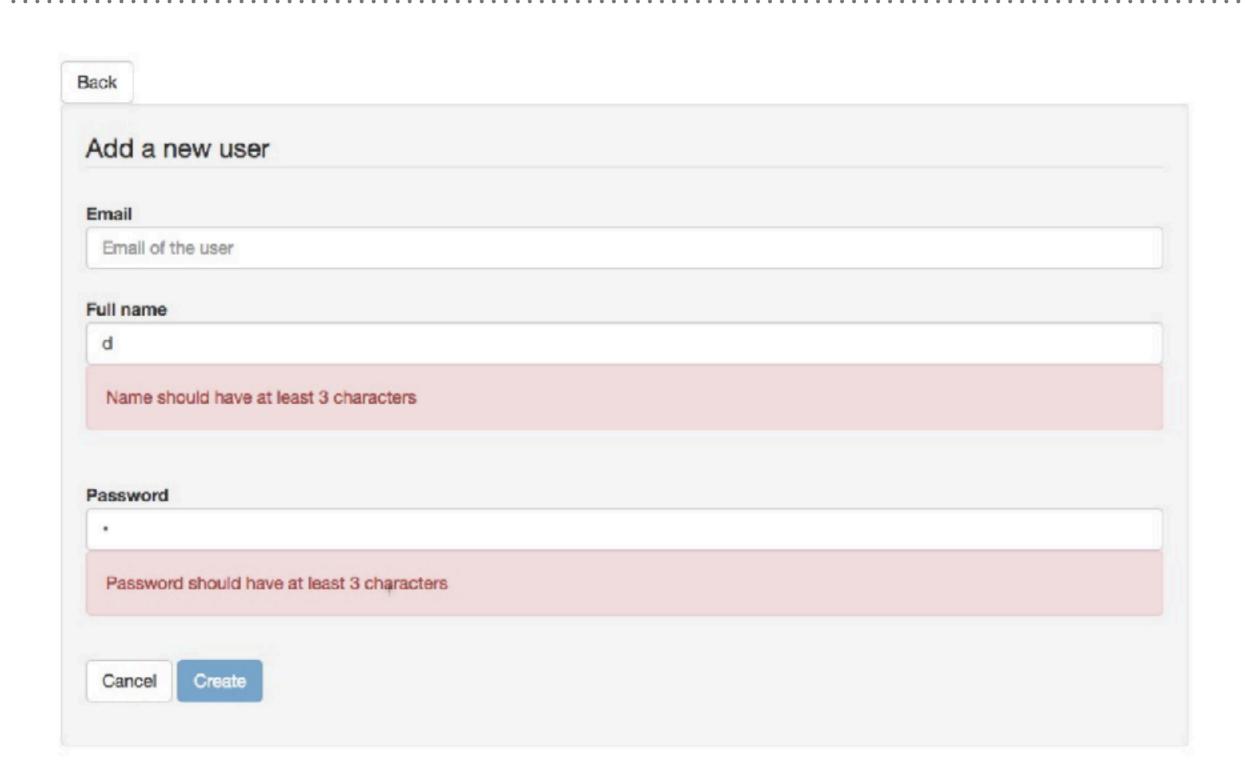
> Check the site:



```
<div class="col-md-10 col-md-offset-1">
  <div class="well well bs-component">
    <form novalidate class="form-horizontal" (ngSubmit)="createUser()" [formGroup]="us</pre>
erForm">
      <fieldset>
        <legend>Add a new user</legend>
        <div class="form-group">
          <label for="email" class="col-lg-2 control-label">Email</label>
          <div class="col-lg-10">
            <input type="text" class="form-control" id="email" name="email" placeholder</pre>
="Email of the user" formControlName="email">
            <div *ngIf="userForm.get('email').dirty && userForm.get('email').hasError('</pre>
required')" class="alert alert-danger">Email is required</div>
            <div *ngIf="userForm.get('email').dirty && userForm.get('email').hasError('</pre>
minlength')" class="alert alert-danger">Email should have at least 3 characters</div>
          </div>
        </div>
        <div class="form-group">
          <label for="name" class="col-lg-2 control-label">Full name</label>
          <div class="col-lg-10">
            <input type="text" class="form-control" id="name" name="name" placeholder="</pre>
Name of the user formControlName="name">
            <div *ngIf="userForm.get('name').dirty && userForm.get('name').hasError('r</pre>
equired')" class="alert alert-danger">Name is required</div>
            <div *ngIf="userForm.get('name').dirty && userForm.get('name').hasError('m</pre>
inlength')" class="alert alert-danger">Name should have at least 3 characters</div>
          </div>
        </div>
```

```
<div class="form-group">
          <label for="name" class="col-lg-2 control-label">Full name</label>
          <div class="col-lg-10">
            <input type="text" class="form-control" id="name" name="name" placeholder="</pre>
Name of the user formControlName="name">
            <div *ngIf="userForm.get('name').dirty && userForm.get('name').hasError('r</pre>
equired')" class="alert alert-danger">Name is required</div>
            <div *ngIf="userForm.get('name').dirty && userForm.get('name').hasError('m
inlength")" class="alert alert-danger">Name should have at least 3 characters</div>
          </div>
        </div>
        <div class="form-group">
          <label for="password" class="col-lg-2 control-label">Password</label>
          <div class="col-lg-10">
            <input type="password" class="form-control" id="password" name="password"</pre>
placeholder="Password" formControlName="password">
            <div *ngIf="userForm.get('password').dirty && userForm.get('password').has</pre>
Error('required')" class="alert alert-danger">Password is required</div>
            <div *ngIf="userForm.get('password').dirty && userForm.get('password').has</pre>
Error('minlength')" class="alert alert-danger">Password should have at least 6 charact
ers</div>
          </div>
        </div>
```

CHECK FORM AGAIN



END OF PART 17