Exercies Lesson 4

Create application and add modules

1. Create a new application with ng new(docs)

```
ng new lesson04-forms --routing --style scss
```

Add two modules with ng g m(docs) for implementing a 2. template-driven form and a reactive form Hint: You could give them a telling name like ReactiveModule and TemplateModule

```
ng g m ReactiveModule --routing
ng g m TemplateModule --routing
```

Setup template-driven form

1. Add a new component with ng g c(docs). This is here we will add a form. Make sure that the component is added to the right module. Hint: Check the documentation to do this is as a sweet one-liner

IN THE template-module dir:

```
juliezepernickjepsen@MacBook-Pro-tilhrende-Julie template-module % ng generate component TemplateForm --module=template-module
```

```
• juliezepernickjepsen@MacBook-Pro-tilhrende-Julie template-module % ng generate component TemplateForm --module=template-module

CREATE src/app/template-module/template-form/template-form.component.scss (0 bytes)

CREATE src/app/template-module/template-form/template-form.component.html (28 bytes)

CREATE src/app/template-module/template-form/template-form.component.spec.ts (602 bytes)

CREATE src/app/template-module/template-form/template-form.component.ts (230 bytes)

UPDATE src/app/template-module/template-module.ts (423 bytes)

juliezepernickjepsen@MacBook-Pro-tilhrende-Julie template-module % []
```

3. Import FormsModule in the template module. `template-module.module.ts``

```
import { NgModule } from '@angular/core';
import { CommonModule } from '@angular/common';
import { FormsModule } from '@angular/forms'; //this line added

import { TemplateModuleRoutingModule } from './template-module-
routing.module';
import { TemplateFormComponent } from './template-form/template-
form.component';

@NgModule({
```

```
declarations: [
   TemplateFormComponent
],
imports: [
   CommonModule,
   TemplateModuleRoutingModule,
   FormsModule //and this line added
]
})
export class TemplateModuleModule { }
```

Setup reactive form

1. Add a new component with ng g c(docs). Make sure that the component is added to the right module.

IN THE reactive-module dir:

`ng generate component ReactiveForm --module=reactive-module``

```
• juliezepernickjepsen@MacBook-Pro-tilhrende-Julie reactive-module % ng generate component ReactiveForm --module=reactive-module

CREATE src/app/reactive-module/reactive-form/reactive-form.component.scss (0 bytes)

CREATE src/app/reactive-module/reactive-form/reactive-form.component.html (28 bytes)

CREATE src/app/reactive-module/reactive-form/reactive-form.component.spec.ts (602 bytes)

CREATE src/app/reactive-module/reactive-form/reactive-form.component.ts (230 bytes)

UPDATE src/app/reactive-module/reactive-module.ts (423 bytes)

juliezepernickjepsen@MacBook-Pro-tilhrende-Julie reactive-module % []
```

3. Import ReactiveFormsModule in the template module.

`tempalte-module.module.ts

```
import { NgModule } from '@angular/core';
import { CommonModule } from '@angular/common';
import { FormsModule } from '@angular/forms'; //this line added

import { ReactiveModuleRoutingModule } from './reactive-module-
routing.module';
import { ReactiveFormComponent } from './reactive-form/reactive-
form.component';

@NgModule({
    declarations: [
        ReactiveFormComponent
    ],
    imports: [
        CommonModule,
        ReactiveModuleRoutingModule,
    }
}
```

```
FormsModule // and this line added

]
})
export class ReactiveModuleModule { }
```

Setup service and mock data

- 1. Create a file called class.type.ts and copy/paste the following content:
- 2. Create a file called race.type.ts and copy/paste the following content

```
e.ts U • TS reactive-module.module.ts U
                                                                                               TS race.type.ts U X
                                                                                                src > app > TS race.type.ts > [@] RACES_HORDE
           name: string;
                                                                                                       export interface Race {
           roles: Array<Role>;
                                                                                                           name: string;
                                                                                                         export const RACES_ALLIANCE = [{
           name: string;
                                                                                                           name: "Human"
                                                                                                          name: "Dwarf"
                                                                                                         }, {
           name: 'Warrior',
                                                                                                           name: "Night Elf"
           roles: [{
                                                                                                         }, {
            name: "Tank"
                                                                                                           name: "Gnome"
           }, {
            name: "Damage"
                                                                                                           name: "Draenei"
                                                                                                         }, {
                                                                                                           name: "Worgen"
           name: 'Paladin',
           roles: [{
                                                                                                           name: "Pandaren"
            name: "Tank"
                                                                                                         export const RACES_HORDE = [[]{}
             name: "Damage"
                                                                                                           name: "Orc"
             name: "Healer"
                                                                                                           name: "Undead"
           name: 'Hunter',
                                                                                                           name: "Tauren"
             name: "Damage"
                                                                                                           name: "Troll"
                                                                                                           name: "Blood Elf"
           name: 'Rouge',
                                                                                                           name: "Goblin"
            name: "Damage"
                                                                                                           name: "Pandaren"
           name: 'Priest',
            name: "Healer'
             name: "Damage"
           name: 'Shaman',
             name: "Healer"
```

3. Create a service named WarcraftService and copy/paste content

in /app

```
ng generate service WarcraftService
applicomponent.nemt applicomponent.specits applimodate.ts

• juliezepernickjepsen@MacBook-Pro-tilhrende-Julie app % ng generate service WarcraftService

CREATE src/app/warcraft-service.service.spec.ts (403 bytes)
CREATE src/app/warcraft-service.service.ts (144 bytes)

• juliezepernickjepsen@MacBook-Pro-tilhrende-Julie app % []
```

```
TS warcraft-service.service.ts U X
TS race.type.ts U
src > app > TS warcraft-service.service.ts > 😭 WarcraftService
       import { Injectable } from '@angular/core';
       import { Observable, of } from 'rxjs';
       import { Class, CLASSES } from './class.type';
       import { Race, RACES_ALLIANCE, RACES_HORDE } from './race.type';
       @Injectable({
         providedIn: 'root'
  8
       })
       export class WarcraftService {
 10
         constructor() { }
 11
 12
 13
         getClasses(): Observable<Array<Class>> {
           return of(CLASSES)
 14
 15
 16
 17
         getAllianceRaces(): Observable<Array<Race>> {
 18
           return of(RACES_ALLIANCE)
 19
 20
 21
         getHordeRaces(): Observable<Array<Race>> {
           return of(RACES_HORDE)
 22
 23
       }
 24
```

#Setup the vanilla form

Now that we have some data, we are ready to

1. Create a form with the following input fields:

```
name
password
confirm_password
race
class
level
description
```

```
import { Component, OnInit } from '@angular/core';
import { WarcraftService } from 'src/app/warcraft-service.service';
```

```
@Component({
 selector: 'app-template-form',
 templateUrl: './template-form.component.html',
 styleUrls: ['./template-form.component.scss']
})
export class TemplateFormComponent implements OnInit {
  formData: any = {
   name: '',
   password: '',
   confirm_password: '',
   race: '', // Initialize with an empty string
   class: '', // Initialize with an empty string
   level: 0, // Initialize with a default value
   description: ''
 };
 races: any[] = [];
 classes: any[] = [];
 constructor(private warcraftService: WarcraftService) {}
 ngOnInit(): void {
   this.warcraftService.getAllianceRaces().subscribe((races) => {
     this.races = races;
   });
   this.warcraftService.getClasses().subscribe((classes) => {
     this.classes = classes;
   });
 }
  }
}
```

- You will need to think about what type on input fields(docs) to use. Fields race and class must be populated with data from WarcraftService
- Add a ngsubmit(docs) to the form
- Before moving on, copy/paste the form into the components we created in Exercise 2 and 3. We will apply a template-driven and a reactive approach later.

```
reactive-form works!
<form (ngSubmit)="onSubmit(myForm)" #myForm="ngForm">
    <div ngModelGroup="passwordGroup" appPasswordsEqual</pre>
#passwordGroup="ngModelGroup">
                                   <!-- Name Input -->
      <div class="form-group">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" [(ngModel)]="formData.name"</pre>
required>
      </div>
      <!-- Password Input -->
      <div class="form-group">
        <label for="password">Password:</label>
        <input type="password" id="password" name="password"</pre>
[(ngModel)]="formData.password" required>
      </div>
      <!-- Confirm Password Input -->
      <div class="form-group">
        <label for="confirm_password">Confirm Password:</label>
        <input type="password" id="confirm password" name="confirm password"</pre>
[(ngModel)]="formData.confirm password" required>
      </div>
    </div>
    <!-- Race and Class Selection -->
    <div class="form-group">
      <label for="race">Race:</label>
      <select id="race" name="race" [(ngModel)]="formData.race" required>
        <option *ngFor="let race of races" [value]="race.name">{{ race.name}}
}}</option>
      </select>
    </div>
    <div class="form-group">
      <label for="class">Class:</label>
      <select id="class" name="class" [(ngModel)]="formData.class" required>
        <option *ngFor="let classItem of classes" [value]="classItem.name">
{{ classItem.name }}</option>
      </select>
    </div>
```

```
<!-- Level Input -->
   <div class="form-group">
     <label for="level">Level:</label>
     <input type="number" id="level" name="level"</pre>
[(ngModel)]="formData.level" required>
   </div>
   <!-- Description Input -->
   <div class="form-group">
     <label for="description">Description:</label>
     <textarea id="description" name="description"</pre>
[(ngModel)]="formData.description"></textarea>
   </div>
   <!-- Submit Button -->
   <div class="form-group">
     <button type="submit" [disabled]="!myForm.valid">Submit
   </div>
 </form>
```