

# Reactive and Template driven

Building our form

# Reactive and Template driven

- After we planned our form structure now it's time to implement to form according to the structure we designed: FormControl, FormArray, FormGroup
- Angular provide two way to structure our form
  - ▶ Template driven - where we structure our form using directives
  - ▶ Reactive - We design our form using directives and code in our component class

# Template driven

- With template driven we can create forms that are made from a single group
  - ▶ Using the **NgForm** directive
- In our group we can place **FormControl** using the directive **NgModel**

```
@Component({
  selector: 'login',
  template: `
    <form>
      <input type="email" name="email" ngModel ↗
      <input type="password" name="password" ngModel ↗
    </form>
  `
})
```

# Reactive forms

- With Reactive we use a more declarative approach where we define the structure of the form in our component class
- We attach the structure in our code to the form with directives
- Reactive Template

```
@Component({
  selector: 'login',
  template: `
    <form [formGroup]="loginForm">
      <input type="email" name="email" formControlName="email" ↗
      <input type="password" name="password" formControlName="password" ↗
    </form>
  `
})
```

# Reactive forms class

- The previous form will look like this in our component class

```
export class LoginComponent {  
  loginForm = new FormGroup({  
    email: new FormControl(),  
    password: new FormControl()  
  })  
}
```

# What to choose Reactive or Template

- For a simple form structure of a group containing controls you can choose either approach
- For more complex structure with nested groups and array choose reactive
- For dynamic forms choose reactive
- The template driven hides behind a directive the FormGroup, FormControl from us and the directive will update the FormGroup, FormControl with a tick delay
- The reactive update is sync therefore easier to control and test.

# Summary

- Angular provides us 2 sets of tools for creating our forms
  - ▶ Reactive
  - ▶ Template driven
- The Template driven is more suitable for simple form with form controls and non dynamic
- The reactive gives us more power in our forms where we can create complex form structure and more dynamic forms

# Thank You

**Next Lesson: Template driven forms**