

Angular Template-driven Forms

Getting Started with Template-driven Forms



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Version Check



This course was created by using:

- Angular 20



Version Check



This course is 100% applicable to:

- Angular 14+

Mostly applicable to:

- 8+



Recommended Prerequisites

Angular Fundamentals

HTML

JavaScript



Edit Contact

Name/Info

First Name

Last Name

Title

Phone

Phone

Mobile

Email

Email

☐ Home

☐ Work

☐ Other

Address

Address

City

State/Region

Zip/Postal Code

Home

Cancel

Save

For each field:
Input Value



Edit Contact

Name/Info

Jim

Cooper

Author

Phone

888-555-1212

Mobile

Email

me@jcoop.io

☒ Home ☐ Work ☐ Other

Address

123 Main St

Some City

Montana

12345

Work

Cancel

Save

For each field:
Input Value
Validity



Edit Contact

Name/Info

First Name

First Name is Required

Cooper

Author

Phone

888-555-1212

Mobile

Email

me@jcoop.io

☒ Home ☐ Work ☐ Other

Address

123 Main St

Some City

Montana

12345

Work

Cancel

Save

For each field:

Input Value

Validity

Dirty

Touched



Edit Contact

Name/Info

First Name

First Name is Required

Last Name

Last Name is Required

Title

Title Name is Required

Phone

Phone

Phone Number is Required

Mobile

Email

Email

Email is Required

Home

Work

Other

Address

Address

Address is Required

City

State/Region

Zip/Postal Code

For each field:

Input Value

Validity

Dirty

Touched



Edit Contact

Name/Info

First Name

First Name is Required

Last Name

Title

Phone

Phone

Mobile

Email

Email

Home

Work

Other

Address

Address

City

State/Region

Zip/Postal Code

Home

Cancel

Save

For each field:

- Input Value
- Validity
- Dirty
- Touched

For the entire form:

- Input Values
- Validity
- Dirty
- Touched



Edit Contact

Name/Info

First Name

First Name is Required

Last Name

Title

Phone

Phone

Mobile

Email

Email

Home

Work

Other

Address

Address

City

State/Region

Zip/Postal Code

Home

Cancel

Save

For each field:

- Input Value

Validity

Dirty

Touched

For the entire form:

- Input Values

Validity

Dirty

Touched



Angular Form Controls

FormControl

First Name [(ngModel)]="firstName"

- invalid
- valid
- dirty
- pristine
- touched
- untouched
- value

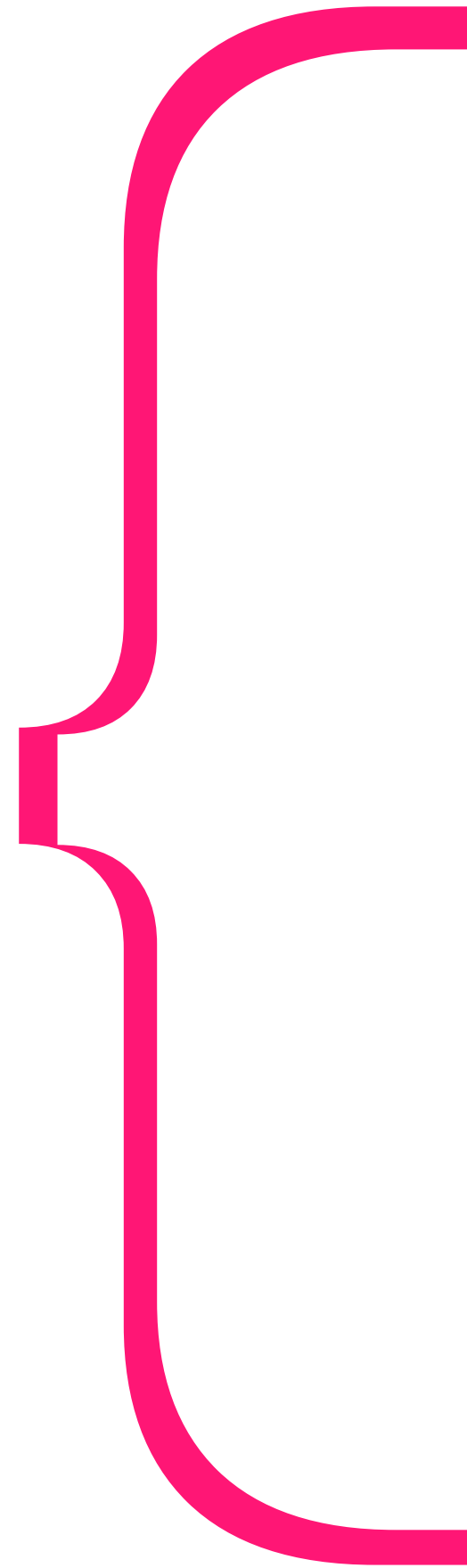
FormGroup

+

- invalid
- valid
- dirty
- pristine
- touched
- untouched
- value



Form Model



FormGroup

FormControl

First Name

FormControl

Last Name

FormGroup

FormControl

Phone Number

FormControl

Home ▼



Angular Forms Approaches

Template-driven Forms

Reactive Forms



Angular Forms Approaches: Similarities

Template-driven Forms

and

Reactive Forms

FormControl

First Name

- invalid
- valid
- dirty
- pristine
- touched
- untouched

FormGroup

First Name

Last Name

Title

Address



City

State/Region

Zip/Postal Code

Home



- invalid
- valid
- dirty
- pristine
- touched
- untouched

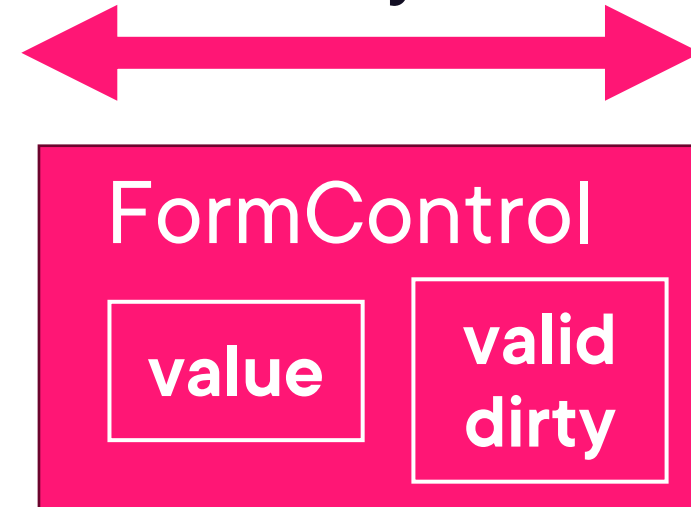


Template-driven Forms

First Name

```
<input  
  type="text"  
  [(ngModel)]="contact.firstName"  
  #firstName=ngModel  
>
```

Two-way binding



```
class MyComponent {  
  contact:Contact = {  
    firstName: ''  
    lastName: ''  
  };  
}
```

Reactive Forms

First Name

```
<input  
  type="text"  
  [formControl]="firstName"  
>
```

One-way binding



"input" Event

```
class MyComponent {  
  firstName = new FormControl('');  
}
```



Template-driven Forms

vs

Reactive Forms

HTML template-based

Separate data model

Two-way mutable bindings

Synchronous data flow

Validation with directives

TypeScript/Component-based

**Data model managed by
form controls**

One-way immutable bindings

Asynchronous data flow

Validation with functions

