

Angular Guards

Protecting Routes with Guards



Limit access to a route



Restrict access to only certain users



Require confirmation before navigating away

Protecting Routes with Guards



CanActivate

- Guard navigation to a route

CanDeactivate

- Guard navigation from a route

Resolve

- Pre-fetch data before activating a route

CanLoad

- Prevent asynchronous routing

Angular Modules

What Is an Angular Module?



Module

A class with an NgModule decorator

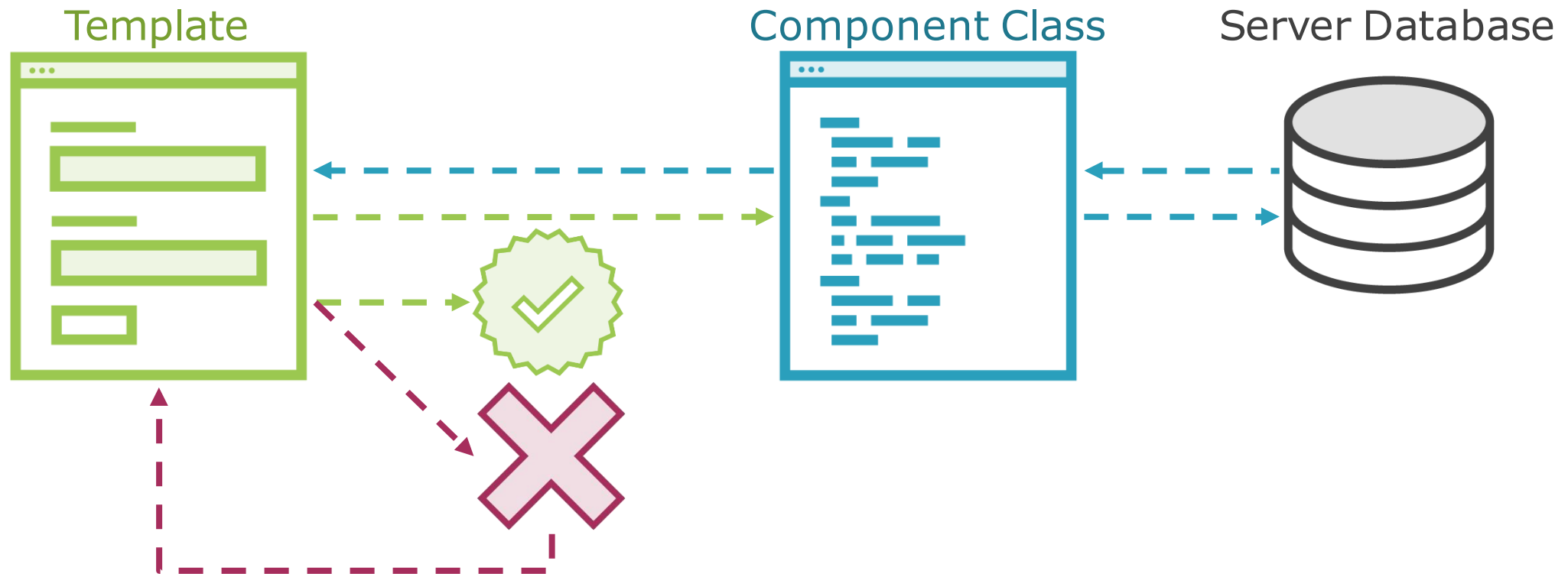
Its purpose:

- **Organize the pieces of our application**
- **Arrange them into blocks**
- **Extend our application with capabilities from external libraries**
- **Provide a template resolution environment**
- **Aggregate and re-export**

Angular Template Driven vs. Reactive Forms

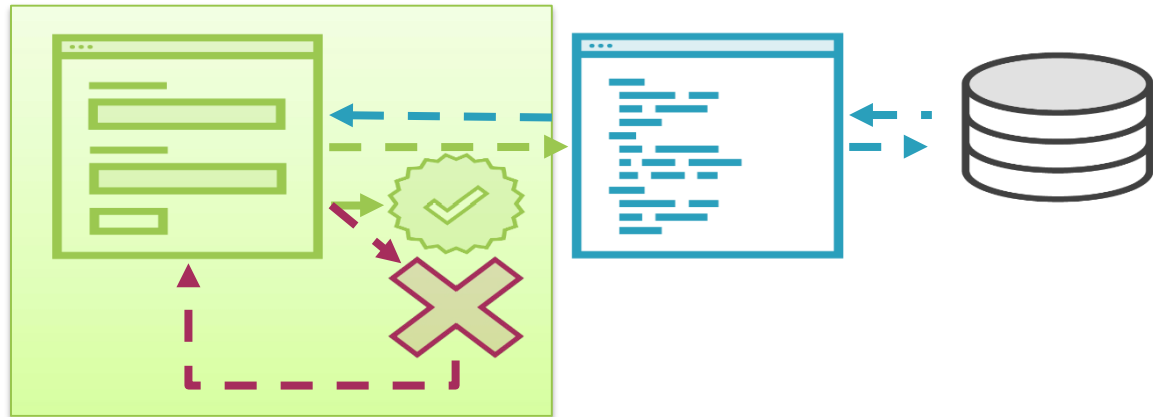
INTRODUCTION

Angular Forms

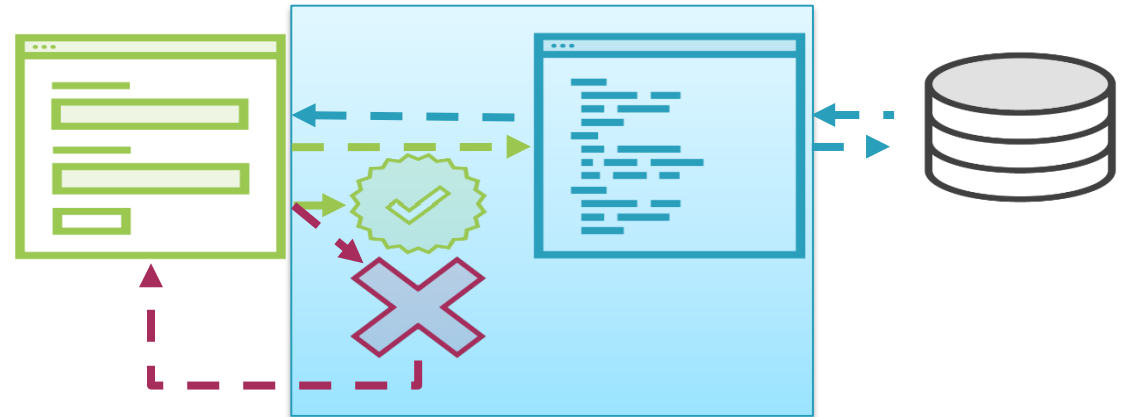


Angular Forms

Template-driven



Reactive
(Model-driven)



Angular Forms

Template-driven

Easy to use

Similar to AngularJS

Two-way data binding ->
Minimal component code

Automatically tracks form and
input element state

Reactive

More flexible ->
more complex scenarios

Immutable data model

Easier to perform an action
on a value change

Reactive transformations ->
DebounceTime or DistinctUntilChanged

Easily add input elements dynamically

Easier unit testing

State

Value
Changed

pristine

dirty

Validity

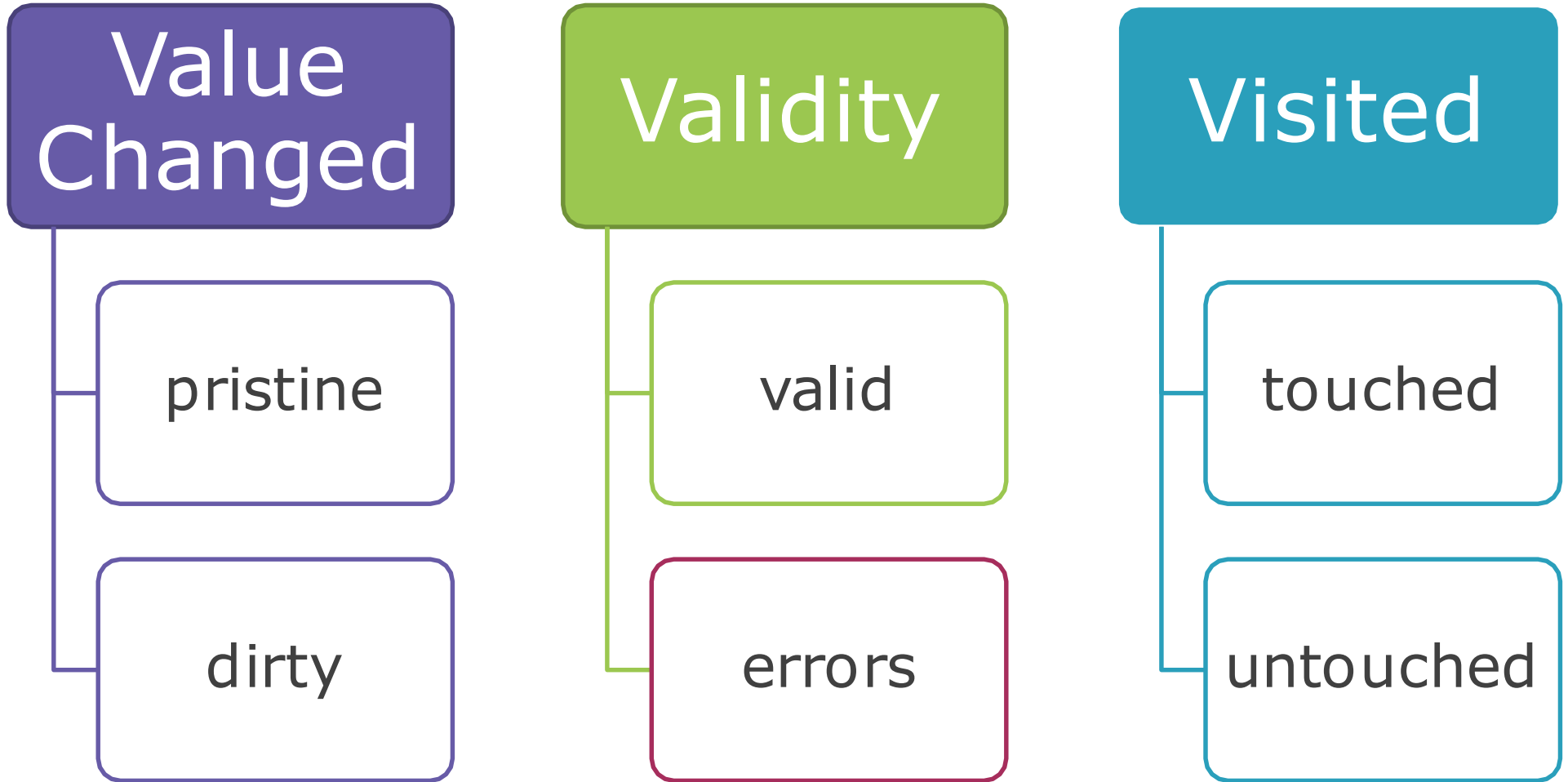
valid

errors

Visited

touched

untouched



Form Building Blocks

FormControl

```
<input id="firstNameId"  
  type="text"  
  placeholder="First Name"  
  required  
  minlength="3" />
```

FormGroup

```
<form (ngSubmit)="save()">  
  ...  
</form>
```

Angular Forms

Template-driven

Generated form model

HTML validation

Two-way data binding

Reactive

Manually created form model

Validation in the class

No two-way data binding

Building, Testing, and Deploying with the CLI

Angular CLI Checklist:

ng generate
Commands



class

ng g cl

component

ng g c

directive

ng g d

enum

ng g e

guard

ng g g

interface

ng g i

module

ng g m

pipe

ng g p

service

ng g s

Angular CLI Checklist: Commands



ng help - Displays available commands

ng new - Creates a new Angular application

ng serve - Builds the app and launches a server

ng generate - Generates code

ng add - Adds support for an external library to the app

ng test - Runs unit tests

ng e2e - Runs end-to-end tests*

ng build - Compiles into an output directory

ng deploy - Deploys the application*

ng update - Updates the Angular version for the app

*Requires adding an external package before using the command

Angular CLI Checklist: Commands



ng build - Compiles into an output directory

aot => ahead of time compilation

jit => just in time

netlify