

Architecture

Setup Angular

```
sudo npm install -g @angular -
  ar/cli
```

```
npm install --save @angular -
  mat erial @angular ar/cdk @angular -
  ar/ ani mations hammerjs
```

Create New Project

```
ng new {name} --styl e=scss
```

```
npm init, create package.json
```

Run

```
ng serve, run local dev server at localh-
  ost:4200
```

```
ng build, build dist bundlers
```

Modules are compound of

-> Components

-> Services

Components

<https://angular.io/guide/component-overview>

Generate Component

```
$ ng generate component {name}
```

A component consist of

- A component class (Typescript class)
- A template
- A css selector that indicates how the component will be integrated
- Optional css styles applied to the template

Services

Generate Service

```
$ ng generate service {path}
```

Data Binding

[https://angular.io/guide/architecture-comp-
 onents#data-binding](https://angular.io/guide/architecture-comp-
 onents#data-binding)

[https://angular.io/guide/template-syntax#m-
 ore-on-template-syntax](https://angular.io/guide/template-syntax#m-
 ore-on-template-syntax)

Interpolation

{{expression}} displays on the template the value of a expression (a component's property).

Property binding

[prope rty]="e xpr ess ion " set value of expression for properties of template elements (html, material, etc.).

E.g.: <img alt="it em" [src]= " -
 ite mIm age Url ">

Event binding

(event)="h and l ebind DOM events with handlers.

Two way binding

[(targ et)]="e xpr ess ion " combines property with event bindings. Used in template driven forms; *target* is usually ngModel.

Forms

Template-Driven Forms

<https://angular.io/guide/forms>

<https://angular.io/guide/form-validation>

[https://material.angular.io/components/form-
 field/overview](https://material.angular.io/components/form-
 field/overview)

Reactive Forms

<https://angular.io/guide/reactive-forms>

<https://angular.io/guide/rx-library>

Routing

<https://angular.io/guide/router>

[https://angular.io/guide/router#activated--
 route](https://angular.io/guide/router#activated--
 route)

HTML5 History API

Provide ability to modify a website's URL without a full page refresh

```
pushSt ate() :Add history entry
```

```
replac eSt ate():Modify history entry
```

Routes

```
{path: " /ho me", component:
  HomeCo mpo nent} in router module
```

```
<ro ute r-o utl et> </r out -
  er- out let> inserts the navigation in
  app's template
```

```
<a router Lin g="p ath " >click
  here</ a> links in template.
```

path can be a string (like '/home') or an array (like ['/dish', dish.id])

Networking

json-server

<https://angular.io/guide/http>

[https://angular.io/guide/http#making-a-put-
 request](https://angular.io/guide/http#making-a-put-
 request)

More...

Attribute directives (Directives)

Animations

Webpack in Angular

```
ng build, build /dist folder (ng build -
  -help)
```



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Page 1 of 1.

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