**🚀 Basic Angular CLI Commands**

**🔹 Component**

bash

CopyEdit

ng generate component component-name

# or shorthand:

ng g c component-name

**🔹 Service**

bash

CopyEdit

ng generate service service-name

# or shorthand:

ng g s service-name

**🔹 Pipe**

bash

CopyEdit

ng generate pipe pipe-name

# or shorthand:

ng g p pipe-name

**🔹 Directive**

bash

CopyEdit

ng generate directive directive-name

# or shorthand:

ng g d directive-name

**🔹 Module**

bash

CopyEdit

ng generate module module-name

# or shorthand:

ng g m module-name

**🔹 Interface**

bash

CopyEdit

ng generate interface interface-name

# or shorthand:

ng g i interface-name

**🔹 Enum**

bash

CopyEdit

ng generate enum enum-name

# or shorthand:

ng g e enum-name

**🔹 Class**

bash

CopyEdit

ng generate class class-name

# or shorthand:

ng g cl class-name

**🔹 Guard**

bash

CopyEdit

ng generate guard guard-name

# or shorthand:

ng g g guard-name

**🔹 Resolver**

bash

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ng generate resolver resolver-name

# or shorthand:

ng g r resolver-name

**🔹 Application**

bash

CopyEdit

ng generate application app-name

**🔹 Library**

bash

CopyEdit

ng generate library lib-name

**⚙️ Other Useful Angular CLI Commands**

**🏁 New Angular Project**

bash

CopyEdit

ng new project-name

**🧪 Run Project**

bash

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ng serve

# or shorthand:

ng s

**🧹 Build Project**

bash

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ng build

**🧪 Run Unit Tests**

bash

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ng test

**📦 Add a Package**

bash

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ng add package-name

# e.g., ng add @angular/material

**📄 Lint Code**

bash

CopyEdit

ng lint

1.node -->node --version

nvm install(to change node versions) = https://www.freecodecamp.org/news/node-version-manager-nvm-install-guide/

2.angular -->npm i -g @angular/cli -->ng v

3.git

4.visual studio code

5.create angular project --> ng new project-name

6.run --> ng serve

project flow:

inder.html -> app-root(appcomponent) -->other component selectors place inside it to view

components:

7.ng g component component-name

angular uninstall:

npm uninstall -g @angular/cli

npm cache verify

where ng # On Windows

which ng # On Mac/Linux

//

C:\Users\sivap>where ng

C:\Users\sivap\AppData\Roaming\npm\ng

C:\Users\sivap\AppData\Roaming\npm\ng.cmd

//

open powershell

del "C:\Users\sivap\AppData\Roaming\npm\ng"

del "C:\Users\sivap\AppData\Roaming\npm\ng.cmd"

components:

ng g c component-name

Routing:

ww.amazon.com

AppModule (Root Module)

│

├── Route: '' → AppComponent

│

├── Route: 'home' → HomeModule

│ └── HomeModule

│ └── Route: '' → HomeComponent

│

├── Route: 'about' → AboutModule

│ └── AboutModule

│ └── Route: '' → AboutComponent

│

└── Route: 'admin' → AdminModule (Lazy Loaded)

└── AdminModule

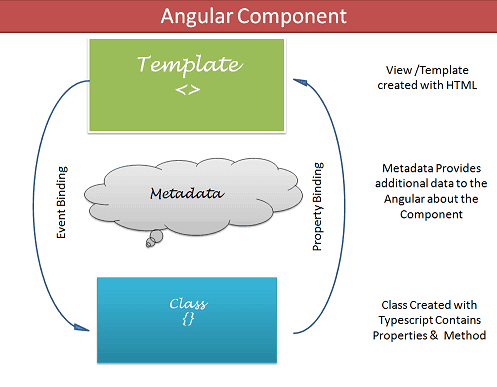
├── Route: 'dashboard' → DashboardComponent

└── Route: 'users' → UsersComponent

ww.amazon.com-🡪app component data

ww.amazon.com/home-🡪app component data

1. [Introduction to Angular Components](https://www.tektutorialshub.com/angular/angular-component/)



**🔍 Metadata Properties in @Component**

| **Property** | **Description** |
| --- | --- |
| selector | HTML tag used to include this component in templates. |
| templateUrl | Path to external HTML file used as the template. |
| template | Inline HTML string (used instead of templateUrl). |
| styleUrls | Array of paths to external CSS/SCSS files. |
| styles | Inline styles as an array of strings. |
| providers | Array of services/providers available only to this component and its view. |
| animations | Defines the animations used in the component. |
| encapsulation | Controls view encapsulation (None, Emulated, ShadowDom). |
| changeDetection | Defines change detection strategy (Default or OnPush). |
| imports | (Angular 14+) Allows importing standalone components, pipes, directives. |
| standalone | (Angular 14+) Marks the component as standalone. |

2.[Data Binding](https://www.tektutorialshub.com/angular/angular-data-binding/)

Property Binding:

**🔤 Text & Content**

| **Syntax** | **Description** |
| --- | --- |
| [innerText] | Sets or binds the visible text content. |
| [textContent] | Similar to innerText, but without formatting. |
| [innerHTML] | Binds HTML content inside the element. |

**📸 Images**

| **Syntax** | **Description** |
| --- | --- |
| [src] | Binds image source URL. |
| [alt] | Sets the alternate text. |

**🔘 Inputs and Forms**

| **Syntax** | **Description** |
| --- | --- |
| [value] | Sets the value of input, textarea, select. |
| [checked] | Sets checkbox/radio checked state. |
| [disabled] | Disables the form control. |
| [readonly] | Makes input read-only. |
| [required] | Makes input required. |

**🎨 Styling and Classes**

| **Syntax** | **Description** |
| --- | --- |
| [style.property] | Binds to a specific style property. |
| [class.className] | Adds/removes a class conditionally. |

**🔗 Anchor & Button**

| **Syntax** | **Description** |
| --- | --- |
| [href] | Binds to anchor URL. |
| [target] | Specifies how to open the link. |
| [disabled] | Disables a button. |

**🧩 Custom Components**

| **Syntax** | **Description** |
| --- | --- |
| [inputProperty] | Binds data to an @Input() property in a component. |

 [attribute] → Binds to DOM **property**, not HTML **attribute**.

 If you want to bind actual HTML attributes (e.g. aria-\*, data-\*), use:

Topics to learns

1.SSR