**Angular**

**Step 1: Install Angular CLI**

Open your terminal or command prompt and run the following command:

npm install -g @angular/cli

This will install Angular CLI globally on your machine.

**Step 2: Create a New Angular Project**

Navigate to the directory where you want to create your new Angular project and run:

ng new your-project-name

Replace **your-project-name** with the name you want to give to your project. The CLI will prompt you to choose some configuration options. For most cases, the default settings are sufficient.

**Step 3: Navigate to the Project Directory**

cd your-project-name

**Step 4: Run the Development Server**

Now, run the following command to start the development server:

ng serve

Or, you can use:

ng serve --open

The **--open** (or **-o**) option will automatically open the application in your default web browser.

Once the server is running, you can navigate to **http://localhost:4200/** to see your new Angular app in action.

That's it! You've successfully created a new Angular project. You can now start building your Angular application.

Components.  
(main component) App

* (Inside App) NavBar
* Courses
* Sidebar
* Course
* Rating
* Module
  + Courses (all module examples)
  + Messaging
  + Instructor
  + Admin

Assets:

Images and any other files like this go here.

Environment:

For storing configurations for different environments

Every application has at least one module and one component.

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Examples of changes made

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Added courses.components

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Result – the courses component is called into the html and displays what is In the component.

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**Interpolation** gives the same results.

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**Directives** – in real world you will get your information from the server which you will need to use **service**.

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Result

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Service-create new file in app courses.service.ts

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Took list from course components and put it in the service.

this causes an issue where if anything is changed it requires multiple changes in the code and added arguments.

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Instead use do it like this so you don’t have to modify multiple locations in your code  
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Now you have to declare the **CoursesService** dependencies in the above constructor in the providers of the **app.module.ts- Note: make sure you import coursesService.**

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How to generate a service using the CLI instead

Terminal command – **ng g s email**. (S for service.)

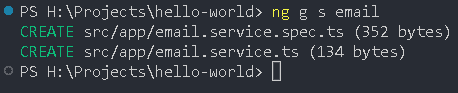


Image- and width of image

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**Install bootstrap**



**Note:** When you need to install packages from a git repository use npm install it will look at the package.jason file for what packages are used and install them.

*Import bootstrap from nod modules into style.css or styles.scss*

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*Bootstrap button example-* added padding in styles.scss to move button from edge.

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**Class Binding**

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If you inspect the button it will show an active class  
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If you change the isActive to equal false then it wont show the active class.

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Style Binding

<https://www.w3schools.com/jsref/dom_obj_style.asp>

if backgroundColor is true it will be blue if false it will be white. Example of many different options.   
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**Event Binding**

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This will console log the button being clicked as an event.

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For more detailed events   
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Event Bubbling

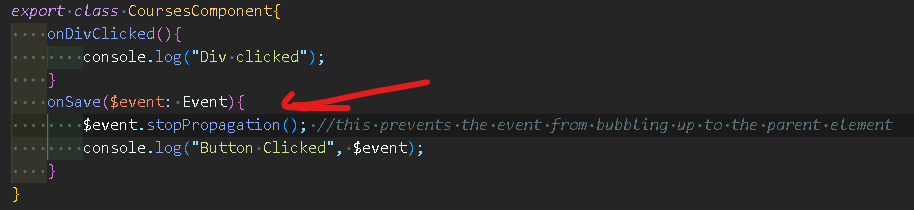
Multiple events at once

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No more div event in console

**Event Filtering**

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when you type something in the input and press enter it should be logged.

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**Cleaner way of doing it.**   
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Template Variables

If you want to get the value that was typed in to the previous input field.

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Cleaner Angular way – declare a template variable with the # symbol.   
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**Two-Way Binding**

Better way for Object oriented languages.

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**Pipes**

Buile-in Pipes

* Uppercase
* Lowercase
* Decimal
* Currency
* Percent
* Custom pipes

Pipes underlined in red. After pipes are arguments to customize pipes. Notes in code snippet.

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**Custom Pipes**

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Need to create a new file in app

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Transform(value: string can be replaced with value: any string is just used here for readability.

Add declaration to app.module.ts

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**More complex way next:**

**Component.ts**

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**Summary.pip.ts**

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**+**