**Angular 11 Tutorial – Video Game Info Page**

<https://www.youtube.com/watch?v=LiOzTQAz13Q>

# Setup

* Create a new angular project
* 
  + HAVE TO INCLUDE app routing from here
  + ng new ng-video-game-db --style=scss --routing=true
  + A screenshot of a computer

    Description automatically generated with medium confidence
* Add @angular/material
* Text

  Description automatically generated
  + I had to include –skip-confirmation at the end
  + Text

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* Text

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* Including angular-gauge plugin
* Text

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* Import modules into app.module.ts
* Text

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* Adding AppRoutingModule
  + This is an alternate method if the app routing was not setup during “ng new” see very top
  + Text

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  + Text

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    - NullInjectorError: R3InjectorError(AppModule)[Router -> Router -> Router];
    - NullInjectorError: No provider for Router
  + <https://angular.io/tutorial/toh-pt5>
  + The route seems to work when you define a path in the routes and setup the routes and routermodule as seen below
  + Text

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  + Text

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* Include all the modules to be imported
* Text

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* Go into src/app directory and make new directory
* A picture containing text, device

  Description automatically generated
* Text

  Description automatically generated with medium confidence cd into components dir

# Search Bar Component

* Ng generate component search-bar
* Text

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* Add the selector for the component from component.ts file into the app.component.html where we will replace the boilerplate code
* A screenshot of a computer

  Description automatically generated with medium confidence

## Surround text with html tag & SCSS

* Paste in the selector, enter in a “>” and the component should become available, hit enter
* Graphical user interface, text, application

  Description automatically generated
* Parent select &
  + The parent selector, &, is a special selector invented by Sass that’s used in nested selectors to refer to the outer selector. It makes it possible to re-use the outer selector in more complex ways, like adding a pseudo-class or adding a selector before the parent.
  + <https://sass-lang.com/documentation/style-rules/parent-selector>
* Text

  Description automatically generated Text

  Description automatically generated
* Graphical user interface, text, application, chat or text message

  Description automatically generated
  + Two html tags: input with placeholder and button
    - Input is style to have rounded corners at top left and bottom left
    - Search button is styled to have rounded corners at the top right and bottom right
* Added hover effects so the search button changes color scheme and the mouse becomes a cursor when hovering over the search button
* Text

  Description automatically generated
* Updating the style for the logo
* Text

  Description automatically generated Graphical user interface

  Description automatically generated

## OnSubmit Form

* Setting up the onSubmit for the search button
  + Newer version of angular results in the same error displayed in console but the search bar component does not appear on the website which is shown on the URL
* Text

  Description automatically generated
* A screenshot of a computer

  Description automatically generated with medium confidence
* Graphical user interface, text, application

  Description automatically generated
* Correct routing error
* Graphical user interface, application, Teams

  Description automatically generated
* Text

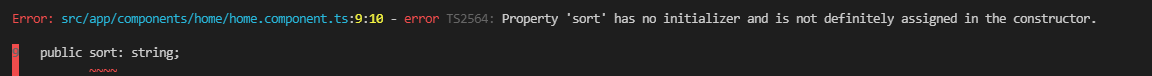
  Description automatically generated

# Home Component

## Adding the component to the app

* Text

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* Text

  Description automatically generated
* 
  + Property '...' has no initializer and is not definitely assigned in the constructor
  + <https://stackoverflow.com/questions/49699067/property-has-no-initializer-and-is-not-definitely-assigned-in-the-construc>
  + Graphical user interface, text, application

    Description automatically generated
  + "strictPropertyInitialization": false
  + Graphical user interface, text, application

    Description automatically generated
  + A screenshot of a computer

    Description automatically generated with medium confidence

## html

* A screenshot of a computer

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  + Using the ngModel here connects the sort selection html component to the “sort” variable defined in [home.component.ts](http://home.component.ts) inside the exported HomeComponent class

## Styling the html

* Text

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### Games

* A screenshot of a computer

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### Single Game with box shadow

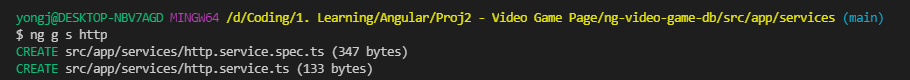
* Text

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* Text

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* Text

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# Creating Http Service

* Create new directory from main dir, cd into it and generate the http service
* 
* A screenshot of a computer

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* getGameList() function

## Models.ts to create interfaces

* These interfaces are representatives of the data members which are returned back from the API endpoint, see later on for results within the console
* Text

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* A screenshot of a computer

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  + Slug of type string is added so that when we are displaying the image for the platforms the games are on, the formatting of the assets/images/platforms matches the spelling
* A screenshot of a computer

  Description automatically generated with medium confidence

# Http Interceptors

## Errors interceptor

* Text

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## Headers interceptor

* Adds the api key and the host url as part of the headers for all https requests and sets the key within the params
* Text

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* Environment.ts file
* Text

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  + The KEY was given from <https://rawg.io/@guitarcore/apikey> and this is added as a parameter to all http request
  + The API\_KEY was given from <https://rapidapi.com/accujazz/api/rawg-video-games-database/> and this is added as a header to all http requests
* These interceptors have to be provided in the app.module.ts
* Text

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# Implementing the home component to display list of all games

* [Home.component.ts](http://Home.component.ts)
* Text

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* Text

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  + searchGames() function
  + See “Creating Http service” section or http.service.ts under the services folder to see the getGameList(sort, search) method

## Example of the results from API

* Text

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* Text

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* Text

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* Current Website layout
* A screen shot of a video game

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# Implementing Sort

* Already included in the “getGameList() method included inside http.service.ts
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* Text

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  + The search string variable can be null as defined in the function signature for searchGames() and getGamesList()
* Text

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  + Inside the [home.component.html](http://home.component.html), ngModel is used to connect the sort menu html component to the “sort” variable defined inside the exported HomeComponent class defined in [home.component.ts](http://home.component.ts)
  + selectionChange means that whenever a new option from the dropdown menu is selected, the function searchGames() is called with the updated sort parameter

## Creating subscription for routeSub and gameSub

* Text

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* A screenshot of a computer

  Description automatically generated with medium confidence
  + The activatedroute is assigned to the routeSub and the httpService is assigned to the gameSub so that new onDestroy lifecycle hooks can be used to avoid memory leaks
* Text

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* 
  + Finally, include the onDestroy interface in the class

## Show details for one game

### Router for details page

* Text

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* Text

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# Create Details Component

* a