# Documentation

## Versions

nodeJs - 14.15.5

angular - 12.0.1

## How to build and run?

Clone repo from -> <https://github.com/AchiraFernando/OMDB.git>

cd to the cloned directory and do npm install

After all packages are installed then run ng serve

After the application is successfully build you can access it from -> <http://localhost:4200/>

## Project Structure

Components (6)

* BannerComponent
* CardComponent
* ContentComponent
* PaginatorComponent
* SearchComponent
* ToolbarComponent
* AppComponent

Services (2)

* LoadService
* CacheService

Pages (1)

* MainPage

Interfaces (5)

* MovieDetail
* MovieDetailResponse
* MovieInfo
* MovieRating
* MovieResponse

## Brief Explanation

### BannerComponent

Is used to display the banner that shows a startup message and error messages from the API response.

### CardComponent

Is responsible to show a card layout containing the details that needs to be shown for each movie.

### ContentComponent

This is the main component that includes the BannerComponent, CardComponent and Paginator Component.

### PaginatorComponent

Here we have implemented the pagination that needs to be included at the bottom of the screen.

### SearchComponent

This is a simple component that handles the search term that the user provides, then the cache service is updated with the search term.

### ToolbarComponent

This component includes the page title and the SearchComponent.

### AppComponent

This is the most parent component that includes the MainPage.

### LoadService

This service is used to sent requests to the OMDB endpoint and retrieve the data, we also handle errors in this service. When the response is successful, it updates the cache by calling a method in the cache service by passing the data.

### CacheService

The main responsibility of this service is to handle and store data from the load service.

### MainPage

This is the only page component as this is a single page application and there is no routing.

## What are unit tested?

## Below mentioned are the Component/Service name and tests written for each.

* [LoadService](http://localhost:9876/?spec=LoadService)
  + [should be created](http://localhost:9876/?spec=LoadService%20should%20be%20created)
* [BannerComponent](http://localhost:9876/?spec=BannerComponent)
  + [should create](http://localhost:9876/?spec=BannerComponent%20should%20create)
  + [should render correct error banner](http://localhost:9876/?spec=BannerComponent%20should%20render%20correct%20error%20banner)
  + [should render correct startup banner](http://localhost:9876/?spec=BannerComponent%20should%20render%20correct%20startup%20banner)
* [CardComponent](http://localhost:9876/?spec=CardComponent)
  + [should create](http://localhost:9876/?spec=CardComponent%20should%20create)
* [MainPageComponent](http://localhost:9876/?spec=MainPageComponent)
  + [should create](http://localhost:9876/?spec=MainPageComponent%20should%20create)
* [CacheService](http://localhost:9876/?spec=CacheService)
  + [should be created](http://localhost:9876/?spec=CacheService%20should%20be%20created)
* [ToolbarComponent](http://localhost:9876/?spec=ToolbarComponent)
  + [should render title](http://localhost:9876/?spec=ToolbarComponent%20should%20render%20title)
  + [should create](http://localhost:9876/?spec=ToolbarComponent%20should%20create)
* [ContentComponent](http://localhost:9876/?spec=ContentComponent)
  + [should create](http://localhost:9876/?spec=ContentComponent%20should%20create)
* [PaginatorComponent](http://localhost:9876/?spec=PaginatorComponent)
  + [should render the ellipsis](http://localhost:9876/?spec=PaginatorComponent%20should%20render%20the%20ellipsis)
  + [should only four clickable pages](http://localhost:9876/?spec=PaginatorComponent%20should%20only%20four%20clickable%20pages)
  + [should render correct pages](http://localhost:9876/?spec=PaginatorComponent%20should%20render%20correct%20pages)
  + [should not render the ellipsis](http://localhost:9876/?spec=PaginatorComponent%20should%20not%20render%20the%20ellipsis)
  + [should create](http://localhost:9876/?spec=PaginatorComponent%20should%20create)
* [AppComponent](http://localhost:9876/?spec=AppComponent)
  + [should create the app](http://localhost:9876/?spec=AppComponent%20should%20create%20the%20app)
* [SearchComponent](http://localhost:9876/?spec=SearchComponent)
  + [should render search button](http://localhost:9876/?spec=SearchComponent%20should%20render%20search%20button)
  + [should render search label](http://localhost:9876/?spec=SearchComponent%20should%20render%20search%20label)
  + [should create](http://localhost:9876/?spec=SearchComponent%20should%20create)