CA3 ASP.Net Core Blazor Project

BLAZOR WEB PAGE USING WEBAPI

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Introduction

An ASP.Net Core Client Side Blazor application is required which provides simple interactive functionality to display data from a public API and provide other simple features. A Single-Page Application is required implemented using Blazor (client side). 1/2 pages will suffice. The application should interact with a public API of your choice (GET only). The API should be RESTful (JSON), a public open API (with no authentication) is fine.

Description of System

This project uses the free API chucknorris.io to generate facts also known as jokes about Chuck Norris. The features that were intended to deliver upon where random jokes which is done on the first page, random joke by category selection and a search functionality to look through the jokes that contain that word.

Bootstrap for blazor otherwise known as <u>blazorstrap.io</u> was used to help with some quick basic formatting.

.Net packages that were used were the following, Microsoft.AspNetCore.Http and newtonsoft.

Screenshots

Random Chuck Norris Facts!

"Chuck Norris facts are satirical factoids about American martial artist and actor Chuck Norris that have become an Internet phenomenon widespread in popular culture. These 'facts' are absurd hyperbolic claims about Norris's toughness, attitude, sophistication, and masculinity."

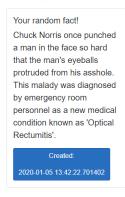


Figure Random Chuck Norris Facts

Search Facts

Enter search query: crocodile Search ["total":4,"result":[["categories":[],"created_at":"2020-01-05 13:42:21.179347","icon_url":"https://assets.chucknorri

Figure 1 Search Chuck Norris Facts, as of writing this I struggled to display it correctly.

List of Fact Categories

- animal
- career
- celebrity
- dev
- explicit
- fashion
- food
- history
- money
- movie
- music
- political
- religion
- science
- sport
- travel

Figure 2 A list of all the categories that the website has,

URI for Deployed App

https://blazorchucknorris.azurewebsites.net/

Description of Testing

I set up unit testing however I failed to figure out how to appropriately do so, the theoretical tests I would attempt would be testing that the search function outputs search results, testing that there was a response from the API and testing that the categories correctly showed up as they should.

Code Quality & Metrics



Scope	Project -	Namacaaca	Timo	Member	Maintainability Inday W	Customatic Complexity Ponth of Inheritance	T Class Counting	v Lines of Course code	Lines of Everytable code
		Namespace *	Type	Member		Cyclomatic Complexity Depth of Inheritance			
,	CA3 (Debug)		B		78			13 1405	
	CA3 (Debug)		Program		55	2		12 14	
	CA3 (Debug)		Program	<main>\$(string[]) : Task</main>	64	1		12 14	
Namespace	CA3 (Debug)	CA3			84	4	2	9 305	2
Гуре	CA3 (Debug)	CA3	_Imports		100	2	1	0 18	
	CA3 (Debug)	CA3	Imports	RazorDirectiveTokenHelpers (100	1		0 3	
	CA3 (Debug)	CA3	Imports	o:object	93	0		0 1	
	CA3 (Debug)	CA3	Imports	Execute(): void	100			0 5	
				execute().void					
	CA3 (Debug)	CA3	App		68				1
	CA3 (Debug)	CA3	App	RazorDirectiveTokenHelpers(0 3	
Member	CA3 (Debug)	CA3	App	o : object	93	0		0 1	
Member	CA3 (Debug)	CA3	App	BuildRenderTree(RenderTreeBuild	55	1		8 104	1
Namespace	CA3 (Debug)	CA3.Pages			80	35	2	766	7
	CA3 (Debug)	CA3.Pages	Counter		78	6	2	17 104	1
	CA3 (Debug)	CA3.Pages	Counter	RazorDirectiveTokenHelpers(-	2 33	
	CA3 (Debug)	CA3.Pages	Counter	_o: object	93			-	
	CA3 (Debug)	CA3.Pages	Counter	BuildRenderTree(RenderTreeBuild				11 40	
Member	CA3 (Debug)	CA3.Pages	Counter	query : string	93	0		0 1	
Member	CA3 (Debug)	CA3.Pages	Counter	response : string	93	0		0 1	
Member	CA3 (Debug)	CA3.Pages	Counter	Search(): Task	90	1		3 4	
	CA3 (Debug)	CA3.Pages	Counter	HandleInput(ChangeEventArgs) : v	91			1 4	
	CA3 (Debug)	CA3.Pages		Http: HttpClient	100	_		2 4	
			Counter						
	CA3 (Debug)	CA3.Pages	Counter	Http.get(): HttpClient	100			1 1	
	CA3 (Debug)	CA3.Pages	Counter	Http.set(HttpClient) : void	100			1 1	
	CA3 (Debug)	CA3.Pages	FetchData		79			116	
	CA3 (Debug)	CA3.Pages	FetchData	RazorDirectiveTokenHelpers(72	1		2 33	
Member	CA3 (Debug)	CA3.Pages	FetchData	_o: object	93	0		0 1	
	CA3 (Debug)	CA3.Pages	FetchData	BuildRenderTree(RenderTreeBuild				2 57	
	CA3 (Debug)	CA3.Pages	FetchData	categories : List <string></string>	93	0		1 1	
	CA3 (Debug)	CA3.Pages	FetchData	OnInitializedAsync() : Task	81			8 5	
	CA3 (Debug)	CA3.Pages	FetchData	Http: HttpClient	100	2		2 4	
Member	CA3 (Debug)	CA3.Pages	FetchData	Http.get(): HttpClient	100	1		1 1	
Member	CA3 (Debug)	CA3.Pages	FetchData	Http.set(HttpClient) : void	100	1		1 1	
	CA3 (Debug)	CA3.Pages	Index		66		2	18 264	3
	CA3 (Debug)	CA3.Pages	Index	RazorDirectiveTokenHelpers (72			2 33	
	CA3 (Debug)	CA3.Pages	Index	_o: object	93			0 1	
	CA3 (Debug)	CA3.Pages	Index	BuildRenderTree(RenderTreeBuild				8 187	2
Member	CA3 (Debug)	CA3.Pages	Index	jsonData : Index.ApiResponse	100	0		1 1	
Member	CA3 (Debug)	CA3.Pages	Index	OnInitializedAsync(): Task	76	1		7 11	
Member	CA3 (Debug)	CA3.Pages	Index	Http: HttpClient	100	2		2 4	
	CA3 (Debug)	CA3.Pages	Index	Http.get(): HttpClient	100			1 1	
			Index		100	1		1 1	
	CA3 (Debug)	CA3.Pages		Http.set(HttpClient) : void					
	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100			0 11	
Member	CA3 (Debug)	CA3.Pages	Index.ApiResponse	categories : object[]	100	2		0 1	
Member	CA3 (Debug)	CA3.Pages	Index.ApiResponse	categories.get():object[]	100	1		0 1	
	CA3 (Debug)	CA3.Pages		categories.set(object[]) : void	100	1		0 1	
	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100			0 1	
					100	1		0 1	
	CA3 (Debug)	CA3.Pages		created_at.get() : string		_		-	
	CA3 (Debug)	CA3.Pages		created_at.set(string) : void	100	1		0 1	
Member	CA3 (Debug)	CA3.Pages	Index.ApiResponse	icon_url : string	100	2		0 1	
Member	CA3 (Debug)	CA3.Pages	Index.ApiResponse	icon_url.get() : string	100	1		0 1	
	CA3 (Debug)	CA3.Pages		icon_url.set(string) : void	100			0 1	
	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100			0 1	
	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100			0 1	
	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100			0 1	
	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100	2		0 1	
	CA3 (Debug)	CA3.Pages		updated_at.get() : string	100	1		0 1	
Member	CA3 (Debug)	CA3.Pages	Index.ApiResponse	updated_at.set(string) : void	100	1		0 1	
	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100	2		0 1	
	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100	1		0 1	
	CA3 (Debug)	CA3.Pages		url.set(string) : void	100			0 1	
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	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100				
	CA3 (Debug)	CA3.Pages	Index.ApiResponse		100			0 1	
Member	CA3 (Debug)	CA3.Pages	Index.ApiResponse	value.set(string) : void	100			0 1	
Namespace	CA3 (Debug)	CA3.Shared			80	9	3	13 320	2
	CA3 (Debug)	CA3.Shared	MainLayout		84			6 45	
	CA3 (Debug)	CA3.Shared	MainLayout	RazorDirectiveTokenHelpers(1	-	2 13	
		CA3.Shared			93			0 1	
Member	CA3 (Debug)		MainLayout	_o:object					
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	CA3 (Debug)	CA3.Shared	NavMenu		77	7		12 105	
	CA3 (Debug)	CA3.Shared	NavMenu	RazorDirectiveTokenHelpers(100	1		0 3	
Member	CA3 (Debug)	CA3.Shared	NavMenu	_o:object	93	0		0 1	
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Member			NavMenu	collapseNavMenu : bool	93			0 1	
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Member Member Member Member Member Member Assembly Namespace	CA3 (Debug) CA3 (Debug) CA3 (Debug) CA3 (Debug) CA3 (Debug) CA3 (Debug)	CA3.Shared CA3.Shared CA3.Shared UnitTestCA3	NavMenu	NavMenuCssClass.get(): string?	94 100	1 1 1		0 4	

Common Issues Encountered

The webapi out putted it's results as json files however these were not in arrays, I didn't realise this at the start and spent a significant amount of time struggling with formatting the json's output correctly and still do.

I switched API's twice during this project, the first one was switched out as RapidAPI limited the number of requests you could make from an API which proved problematic and the second one was switched out as I couldn't consistently pull from the API.

My original code was I would said a lot more advanced and you can see it under the folder 'Cocktails' until 'spring cleaning' git push to main, I would have preferred to do my code this way but because of the many issues and the incredible amount of stress I basically stripped down my code to bare bones.

API URL

https://api.chucknorris.io/

GitHub Repo URL

https://github.com/CiananNicolai/ASP.Net-Core-Blazor-Project-API