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Since the API given in the assignment return 404 message, so I choose to use other API's to get List of Countries.

```
public async Task GetCountryList()
{
    string url = "https://gist.githubusercontent.com/almost/7748738/raw/575f851d945e2a9e6859fb2308e95a3697bea115/countries.json";
    var response = await client.GetStringAsync(url);
    File.WriteAllText(countryFile, response);
}
```

The output of List of Countries JSON file

```
{"name": "Afghanistan", "code": "AF"},
    {"name": "Åland Islands", "code": "AX"},
    {"name": "Albania", "code": "DZ"},
    {"name": "American Samoa", "code": "AS"},
    {"name": "AndorrA", "code": "AD"},
    {"name": "Angola", "code": "AO"},
    {"name": "Anguilla", "code": "AI"},
    {"name": "Antarctica", "code": "AQ"},
    {"name": "Antigua and Barbuda", "code": "AG"},
    {"name": "Argentina", "code": "AR"},
    {"name": "Armenia", "code": "AM"},
    {"name": "Aruba", "code": "AW"},
    {"name": "Aruba", "code": "AW"},
    {"name": "Australia", "code": "AU"},
```

It consists of name and country code from Alphabetically from A through Z

Output Summary

The Details of features are on the next page.

Form	
	OINIO

Form	
Negara	SINGAPORE
_	https://insw-dev.ilcs.co.id/n/negara?ur_negara=SINGAPORE
Pelabuhan	JURONG
	https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=JURONG
Barang	10079000
	Butiran Sorghum
https://insw-c	lev.ilcs.co.id/n/barang?hs_code=10079000
Harga	1000000
Tarif Bea ma	suk 10 % /insw-dev.ilcs.co.id/n/tarif?hs_code=10079000
	100.000
Total Biaya	1.100.000
Form	
Negara	INDONESIA
	https://insw-dev.ilcs.co.id/n/negara?ur_negara=INDONESIA
Pelabuhan	TANJUNG PRIOK
	https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=ID&ur_pelabuhan=TANJUNG PRIOK
Barang	98765432
	Whole Foods Market

https://insw-dev.ilcs.co.id/n/barang?hs_code=98765432

500000 Harga

5 Tarif Bea masuk

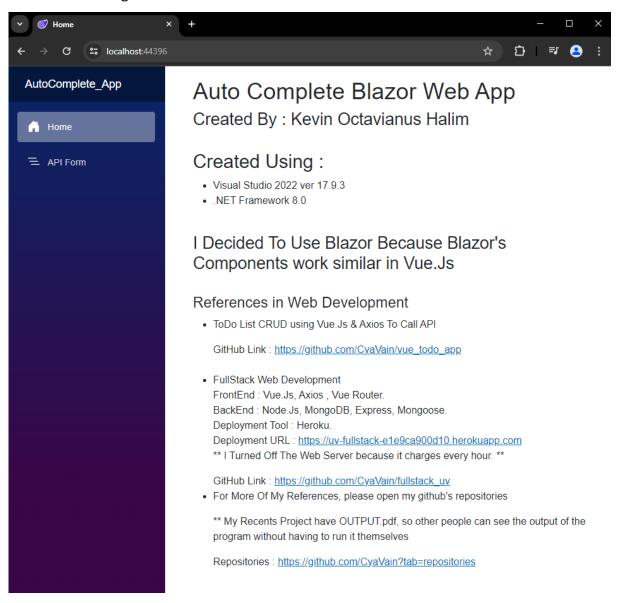
https://insw-dev.ilcs.co.id/n/tarif?hs_code=98765432

25.000

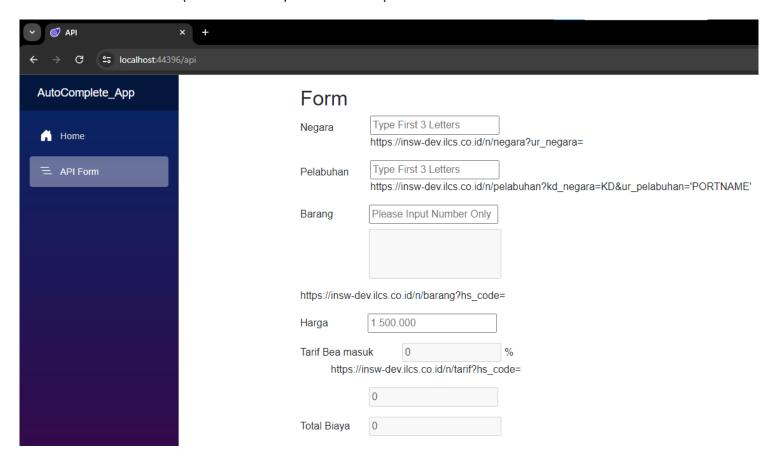
525.000 Total Biaya

The Output Details

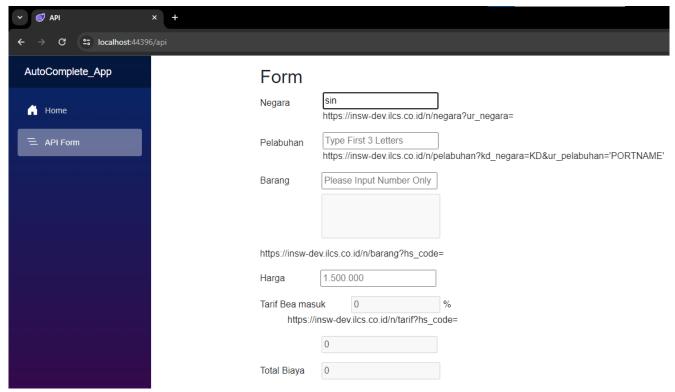
Home / Index Page



The API Form (The Auto Complete Function)



The Auto Complete Demo Negara Input



Whenever User type for AT LEAST 3 characters (case insensitive) and press enter or unfocused the input text, the autocomplete feature will run where it will compare the user input to the country list, if the program found the match, the input text show the name of country in Uppercase.

The Result if user input "sin"

Form

Negara

SINGAPORE

https://insw-dev.ilcs.co.id/n/negara?ur_negara=SINGAPORE

Pelabuhan

Type First 3 Letters

https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=

The program will change the input into "SINGAPORE" since the characters input is matched, and noticed that the url below "Pelabuhan" where kd_negara=KD now updated to SG matching the code of SINGAPORE country.

Another Result

Form

Negara afgh

https://insw-dev.ilcs.co.id/n/negara?ur_negara=SINGAPORE

Pelabuhan Type First 3 Letters

https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=

Now, we try to input other country with 4 characters to demonstrate that user didn't have to input exact 3 letters.

The Result of "afgh"

Form

Negara AFGHANISTAN

https://insw-dev.ilcs.co.id/n/negara?ur_negara=AFGHANISTAN

Pelabuhan Type First 3 Letters

https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=AF&ur_pelabuhan=

Noticed the url below Negara and Pelabuhan input text now also updated.

If Country Not Found

Form		
Negara	tazmania	
	https://insw-dev.ilcs.co.id/n/negara?	ur_negara=AFGHANISTAN

Pelabuhan Type First 3 Letters

https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=AF&ur_pelabuhan=

If the user try to input letters that aren't match in the country list, the program will return

Form

Negara tazmania

Country Not Found

Pelabuhan Type First 3 Letters

https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=KD&ur_pelabuhan='PORTNAME'

Notice the url of Pelabuhan input also update to initial state where it have default value not the value of previous input.

Pelabuhan Input

Form	
Negara	SINGAPORE https://insw-dev.ilcs.co.id/n/negara?ur_negara=SINGAPORE
Pelabuhan	Type First 3 Letters https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=
Let's use SIN	GAPORE as the country in the input, then the Pelabuhan input will require
user to input	the name of sea port exist in that country.
Pelabuhan	jur
	https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=
Let's try input	t "jur" and the result is
Pelabuhan	JURONG https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=JURONG
What if the co	ountry isn't Singapore but user input "jur" anyway ?
Form	
Negara	AFGHANISTAN
riogara	https://insw-dev.ilcs.co.id/n/negara?ur_negara=AFGHANISTAN
Pelabuhan	iur https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=AF&ur_pelabuhan=
The result wo	uld be
Form	
Negara	AFGHANISTAN https://insw-dev.ilcs.co.id/n/negara?ur_negara=AFGHANISTAN
Pelabuhan	jur SeaPort Not Found, Please Make Sure The Country And Ports Are Valid

The program will show the message, because it try to match the country and it's SeaPort name.

Barang Input

Form

Negara	SINGAPORE
Nogara	https://insw-dev.ilcs.co.id/n/negara?ur_negara=SINGAPORE
Pelabuhan	JURONG https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=JURONG
Barang	Please Input Number Only

https://insw-dev.ilcs.co.id/n/barang?hs_code=

Barang's input text is totally based on user's input, they able to type any numbers with any digits, but I made the limit 8 digits, so the user's input isnt going to be that long.

Form SINGAPORE Negara https://insw-dev.ilcs.co.id/n/negara?ur_negara=SINGAPORE **JURONG** Pelabuhan https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=JURONG Barang 10079000 Butiran Sorghum https://insw-dev.ilcs.co.id/n/barang?hs_code=10079000 1.500.000 Harga Tarif Bea masuk % 10 https://insw-dev.ilcs.co.id/n/tarif?hs_code=10079000 0 Total Biaya

Notice the Tarif Bea Masuk is now updated as 10%

Another Result

Form

Negara	SINGAPORE
	https://insw-dev.ilcs.co.id/n/negara?ur_negara=SINGAPORE
Pelabuhan	JURONG
Pelabulian	https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=JURONG
Barang	02044200
	Lain-Lain
	Edil' Edil'
https://insw-dev	v.ilcs.co.id/n/barang?hs_code=02044200
Harga	1.500.000
J	
Tarif Bea masu	k 7 %
https://in	nsw-dev.ilcs.co.id/n/tarif?hs_code=02044200
	0
Total Biaya	0

Noticed now if the Barang's input is different the Tarif Bea Masuk is also changed.

If Code Not Found

Barang	012345		
	Code I	Not Found	
https://insw-dev.ilcs.co.id/n/barang?hs_code=012345			
•			
Harga	1.500.0	000	
Tarif Bea masu	ık	0	%
https://insw-dev.ilcs.co.id/n/tarif?hs_code=012345			

The Program will show message Code Not Found and Tarif became 0 %

Harga Input

Form

Negara	SINGAPORE
	https://insw-dev.ilcs.co.id/n/negara?ur_negara=SINGAPORE
Pelabuhan	JURONG
	https://insw-dev.ilcs.co.id/n/pelabuhan?kd_negara=SG&ur_pelabuhan=JURONG
Barang	10079000
_	Butiran Sorghum
	Dati an Corgnani
https://insw-de	v.ilcs.co.id/n/barang?hs_code=10079000
Harga	1.500.000
Tarif Bea masu	
https://ir	nsw-dev.ilcs.co.id/n/tarif?hs_code=10079000
	0
Total Biaya	0
	t Harga input as
Har	rga 1000000
The Result	
Harga	1000000
Tarif Bea n	nasuk 10 %
	s://insw-dev.ilcs.co.id/n/tarif?hs_code=10079000
•	
	100.000
Total Biaya	1.100.000
Total Diaya	1.100.000

Another Example

E	Barang	02044200
		Lain-Lain
h	ttps://insw-dev	ilcs.co.id/n/barang?hs_code=02044200
H	larga (1000000
Т	arif Bea masul	7 %
	https://in	sw-dev.ilcs.co.id/n/tarif?hs_code=02044200
		70.000
Т	otal Biaya	1.070.000
		ent and valid, the Tarif Bea Masuk will be changed and also, lets try another example.
Form		
Negara	INDONESIA	
	https://insw-dev.	lcs.co.id/n/negara?ur_negara=INDONESIA
Pelabuhan	uhan TANJUNG PRIOK	
	https://insw-dev.	lcs.co.id/n/pelabuhan?kd_negara=ID&ur_pelabuhan=TANJUNG PRIOK
Barang	43210987	
	Video Games	
https://insw-de	ev.ilcs.co.id/n/bara	ng?hs_code=43210987
Harga	1250000	
Tarif Bea mas		% /n/tarif?hs_code=43210987
	112.500	
Total Biaya	1.362.500	