

## Priprema za 2 klk Angular SSA

### Primer 1. Kolokvijuma – Frontend (Angular 13)

Potrebno je kreirati Angular aplikaciju za prikaz podataka dobijenih sa sledećeg Web API linka:

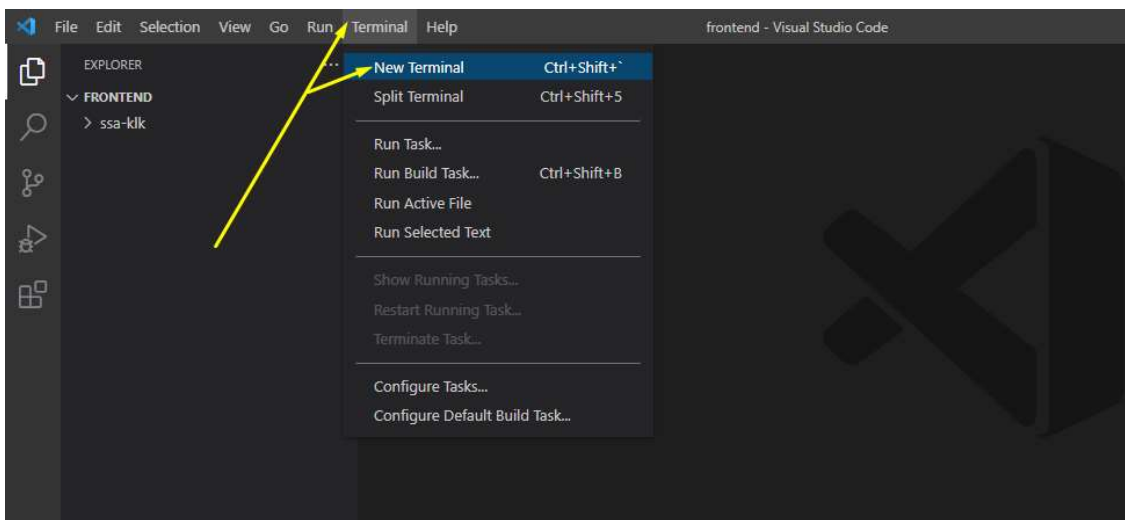
<https://restcountries.com/v2/all?fields=name,capital,population,area,flag,region>

Dobijene podatke prikazati tabelarno: naziv države, glavni grad, region u kome se država nalazi, broj stanovnika, površinu i zastavu. Po mogućnosti tabelu stilizovati koristeći Bootstrap framework. Koristiti sve standardne angular elemente: komponente, servise, modele...

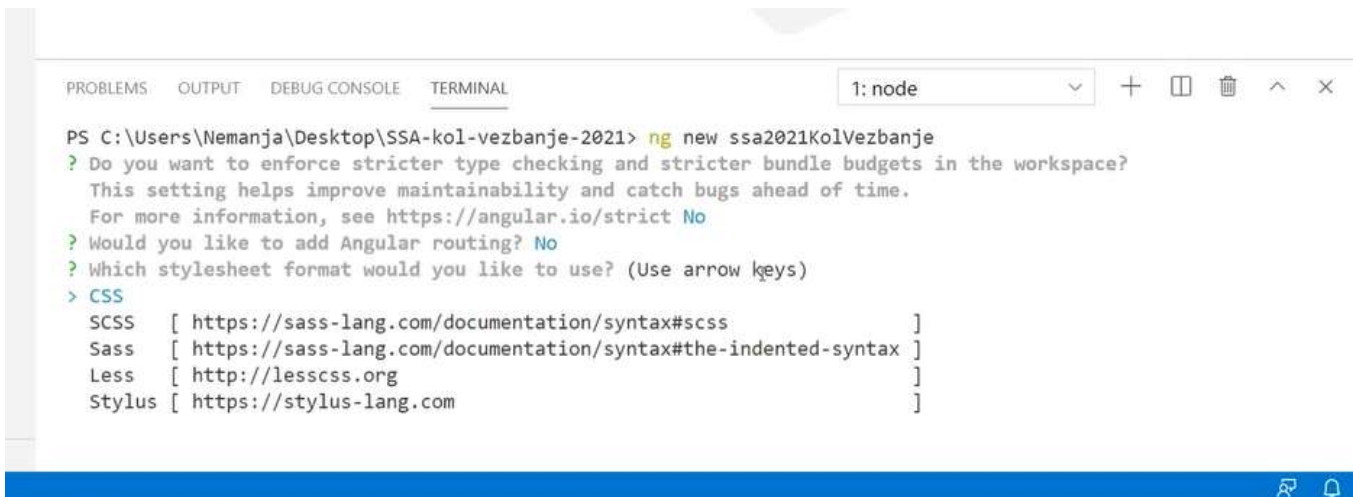
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### Prvo palimo visual studio code

Nakon toga palimo terminal u sklopu visual studio code-a u sklopu menija Terminal pa new Terminal



Nakon toga kucamo sledecu komandu u terminalu: **ng new** pa naziv koji cemo, I sa enter sve potvrđujemo I sacekamo proces moze da potraje.



Ako ovo budu prof za nas odradili kucamo samo npm install

Kada se to završi prelazimo na **ng serve** komandu, gde može da dodje do greške kao na slici ispod iz razloga jer nismo u pravom folderu.



The screenshot shows the Visual Studio Code interface with the 'TERMINAL' tab active. The terminal is running a PowerShell session. The user has entered the command 'ng serve' in the directory 'C:\Users\Nemanja\Desktop\SSA-kol-vezbanje-2021'. The output shows an error message: 'The serve command requires to be run in an Angular project, but a project definition could not be found.' This indicates that the current directory is not an Angular project.

```
PS C:\Users\Nemanja\Desktop\SSA-kol-vezbanje-2021> ng serve
The serve command requires to be run in an Angular project, but a project definition could not be found.
PS C:\Users\Nemanja\Desktop\SSA-kol-vezbanje-2021>
```

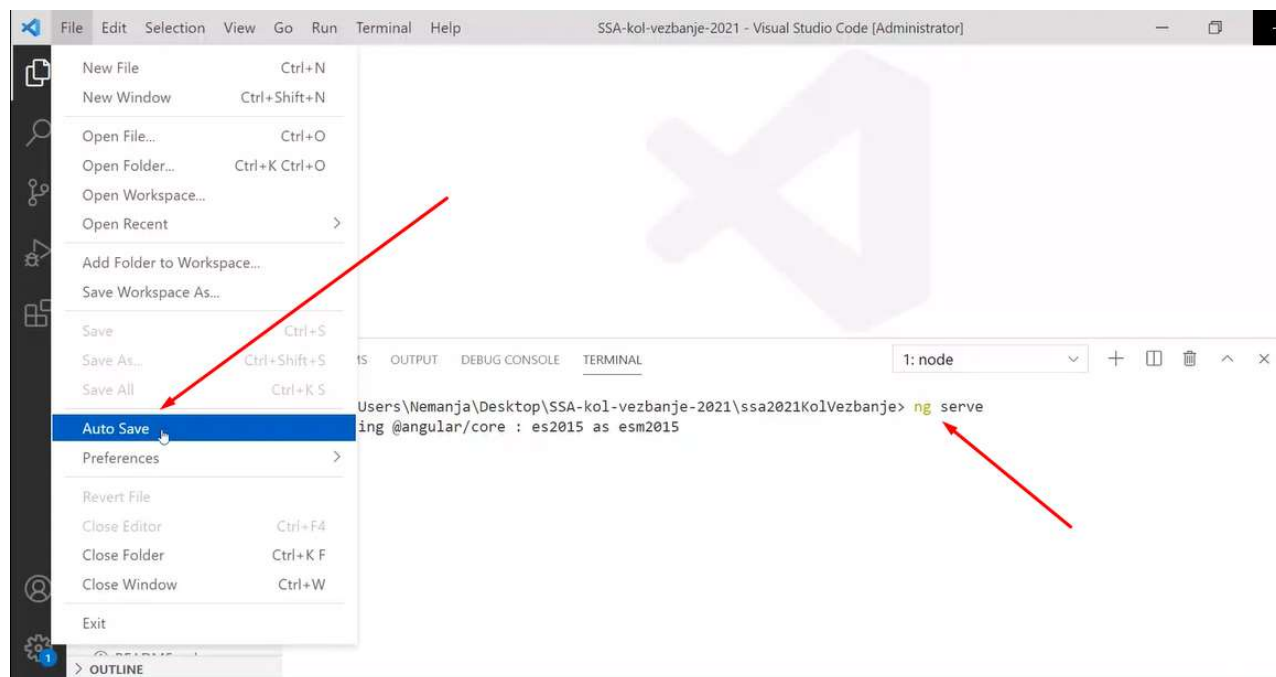
Ovo resavamo uz pomoc **cd** pa naziv foldera projekta da udjemo u njega pa onda idemo **ng serve**



The screenshot shows the Visual Studio Code interface with the 'TERMINAL' tab active. The user has entered the command 'cd ssa2021KolVezbanje' to navigate into the project folder. The output shows the current directory has changed to 'C:\Users\Nemanja\Desktop\SSA-kol-vezbanje-2021\ssa2021KolVezbanje'. The user then enters the command 'ng serve', and the terminal shows the command being executed successfully.

```
PS C:\Users\Nemanja\Desktop\SSA-kol-vezbanje-2021> cd ssa2021KolVezbanje
PS C:\Users\Nemanja\Desktop\SSA-kol-vezbanje-2021\ssa2021KolVezbanje> ng serve
```

Gasimo I AutoSave savetuje Vicovic kako ne bi ukocilo racunar na faxu zbog konstantnog auto sejva.



The screenshot shows the Visual Studio Code interface. The 'File' menu is open, and the 'Auto Save' option is highlighted with a red arrow. The terminal is running a PowerShell session, and the user has entered the command 'ng serve'. The output shows the command being executed successfully.

```
File Edit Selection View Go Run Terminal Help
New File Ctrl+N
New Window Ctrl+Shift+N
Open File... Ctrl+O
Open Folder... Ctrl+K Ctrl+O
Open Workspace...
Open Recent >
Add Folder to Workspace...
Save Workspace As...
Save Ctrl+S
Save As... Ctrl+Shift+S
Save All Ctrl+K S
Auto Save
Preferences >
Revert File
Close Editor Ctrl+F4
Close Folder Ctrl+K F
Close Window Ctrl+W
Exit
OUTLINE
```

```
PS C:\Users\Nemanja\Desktop\SSA-kol-vezbanje-2021\ssa2021KolVezbanje> ng serve
```

```
✓ Compiled successfully.
✓ Browser application bundle generation complete.

Initial Chunk Files | Names | Size
styles.css, styles.js | styles | 347.11 kB

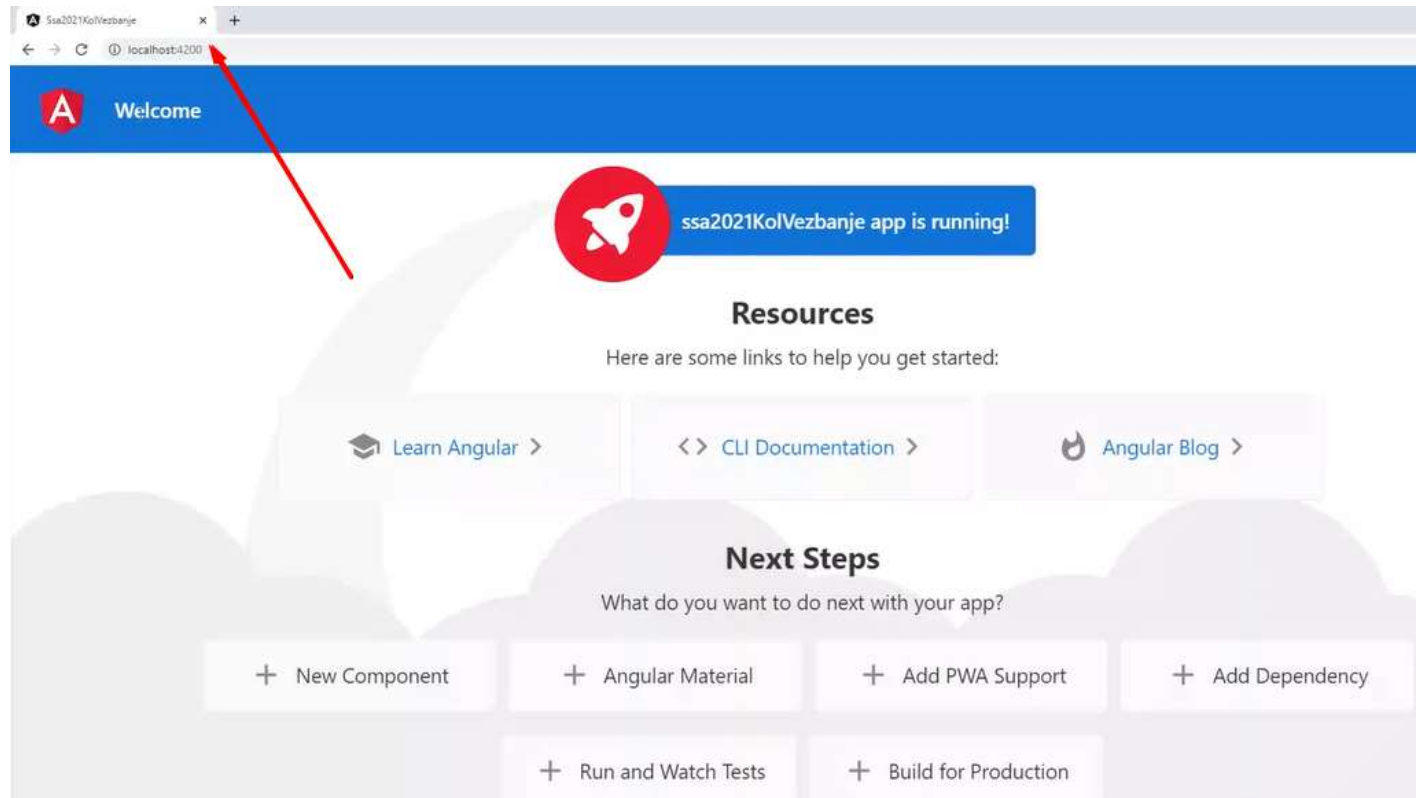
4 unchanged chunks

Build at: 2021-04-14T17:13:48.599Z - Hash: 72cb0e5ee2b3b3895b8f - Time: 242ms

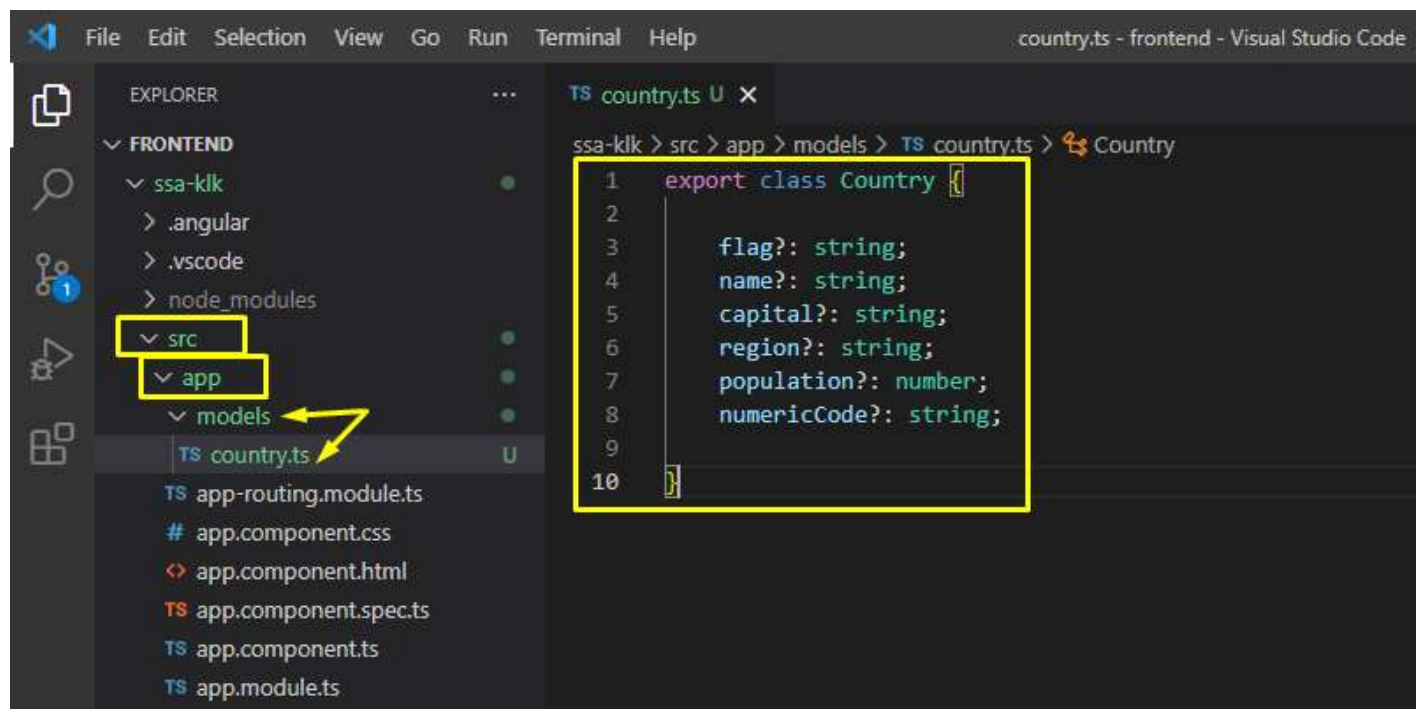
✓ Compiled successfully.
```

uspesno zavrшено.

Nakon toga pokrecemo brauzer uz pomoc koga pokrecemo projekat, gde u adres baru **kucamo localhost:4200** i dobijamo prikaz kao na slici.



Nakon toga u okviru foldera src pa app kreiramo novi folder models u kom kreiramo novu klasu country.ts



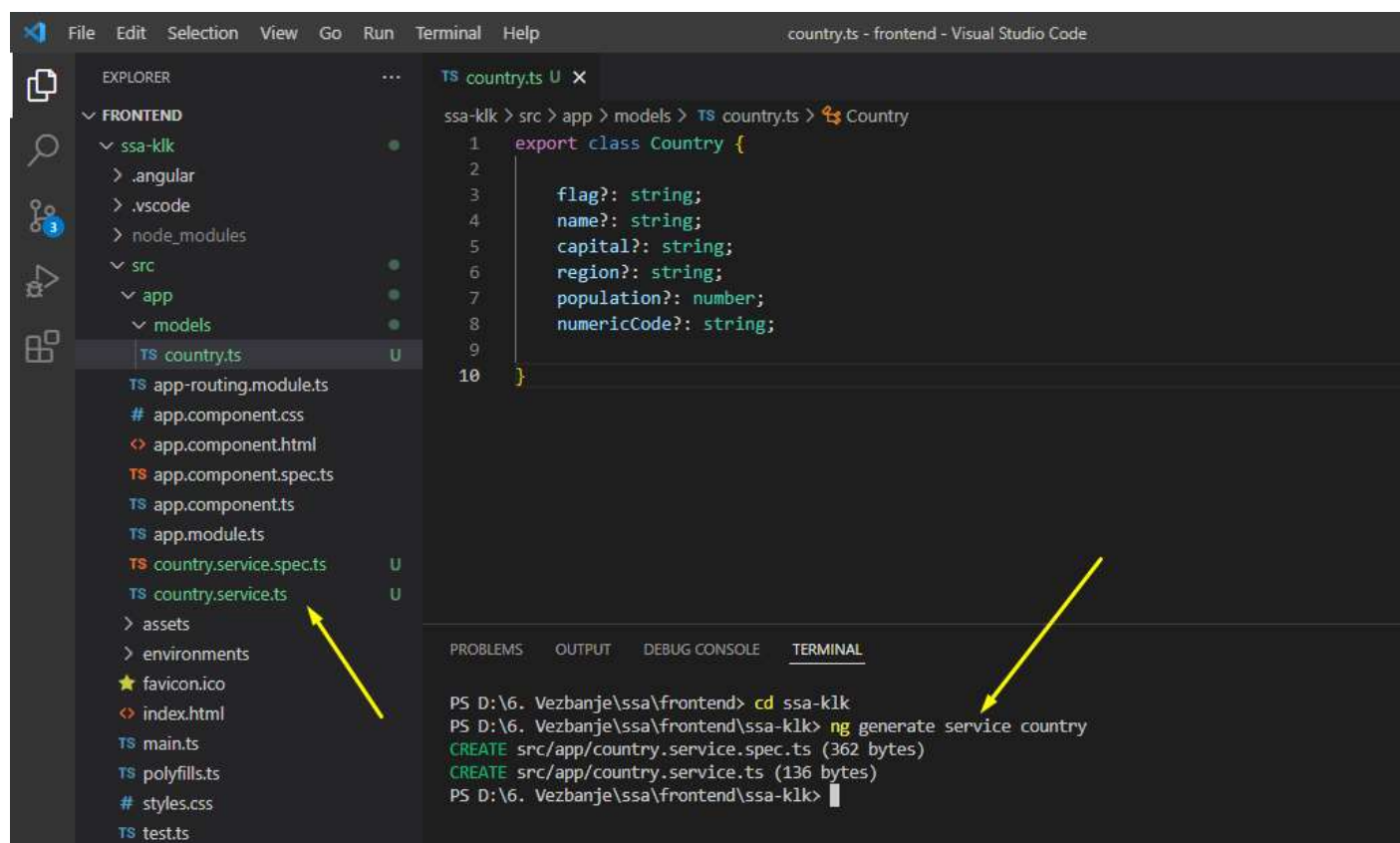
Nakon cega pisemo sledeci kod kao u klasi na slici iznad.

Nakon toga ponovo idemo do terminala I ulazimo u projekat sa komandom: `cd ssa-klk`

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS D:\6. Vezbanje\ssa\frontend> cd ssa-klk
PS D:\6. Vezbanje\ssa\frontend\ssa-klk> |
```

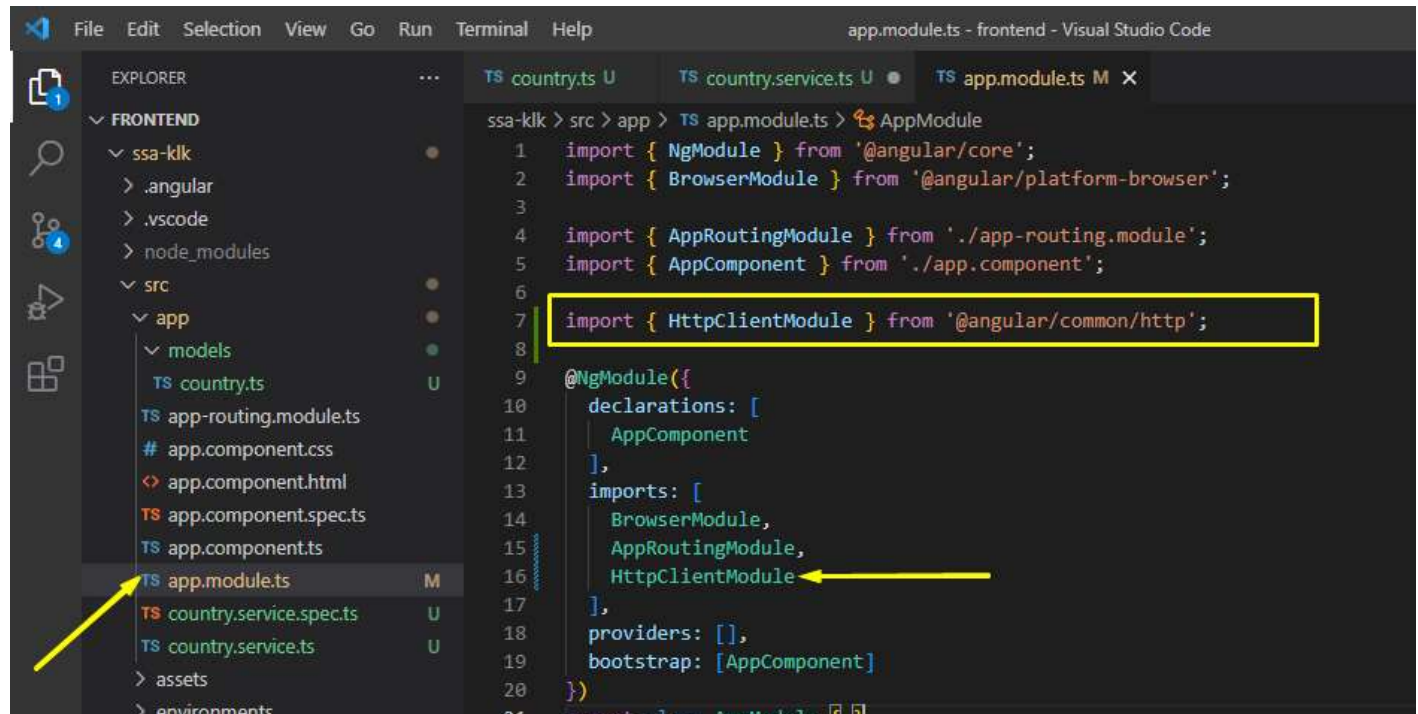
Nakon toga kucamo novu komandu: **ng generate service country** , nakon cega dobijamo novi fajl sa strane



Ulazimo u fajl **app module ts** , u kom dodajemo sledeci http modul kao **import** kao na slici ispod

```
import { HttpClientModule } from '@angular/common/http';
```

HttpClientModule



Nakon toga **prelazimo u fajl country service ts**, koji popunjavamo na sledeci nacin kao na slici ispod i dodajemo link:

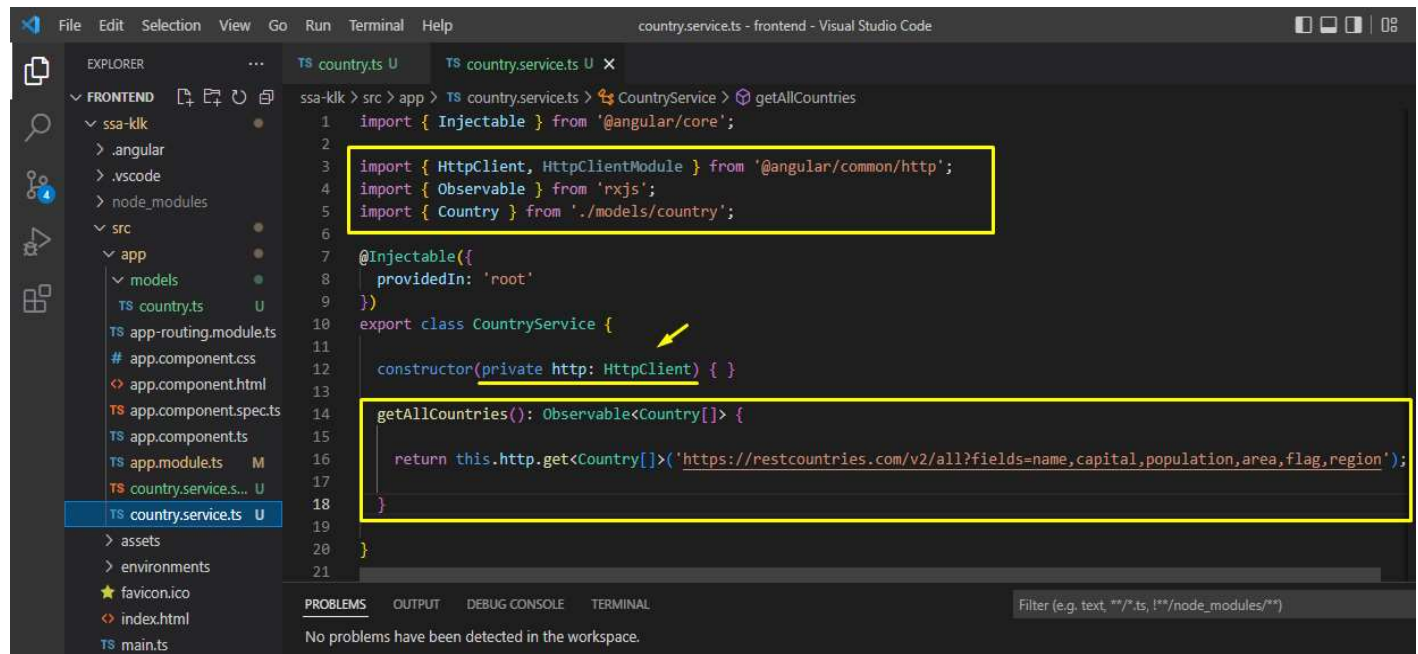
```
import { HttpClient, HttpClientModule } from '@angular/common/http';
import { Observable } from 'rxjs';
import { Country } from './models/country';
```

```
constructor(private http: HttpClient) { }
```

```
getAllCountries(): Observable<Country[]> {
```

```
return
```

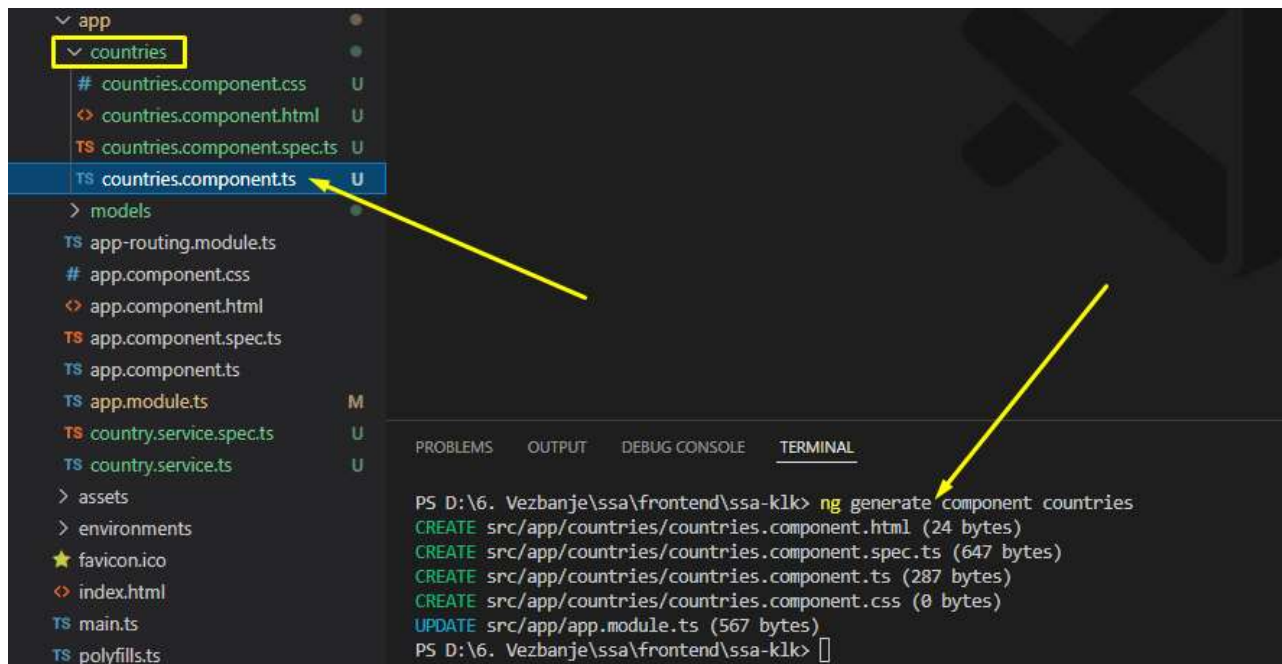
```
this.http.get<Country[]>('https://restcountries.com/v2/all?fields=name,capital,population,area,flag,region')
; }
```





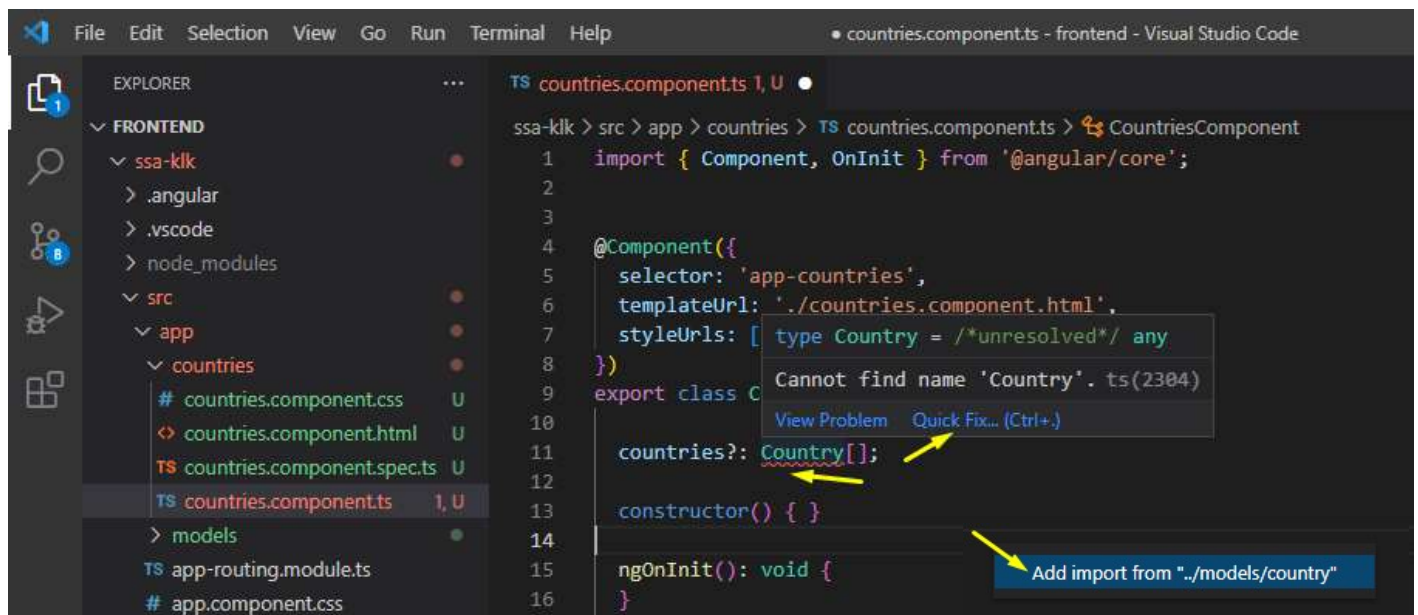
Nakon toga prelazimo na **kreiranje komponente** sa komandom: **ng generate component countries**

Nakon unosa u terminal dobijamo novi folder sa komponentom.

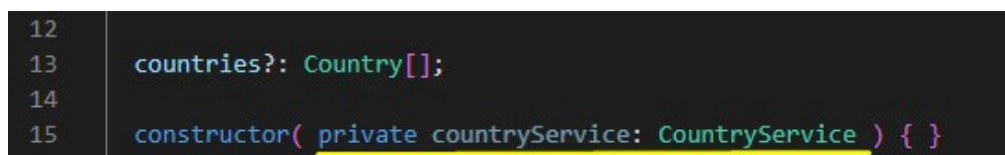


Nakon toga palimo fajl krecemo sa kodiranjem;

Kucamo 11tu liniju koda nakon cega vrsimo import da bi otklonili gresku.

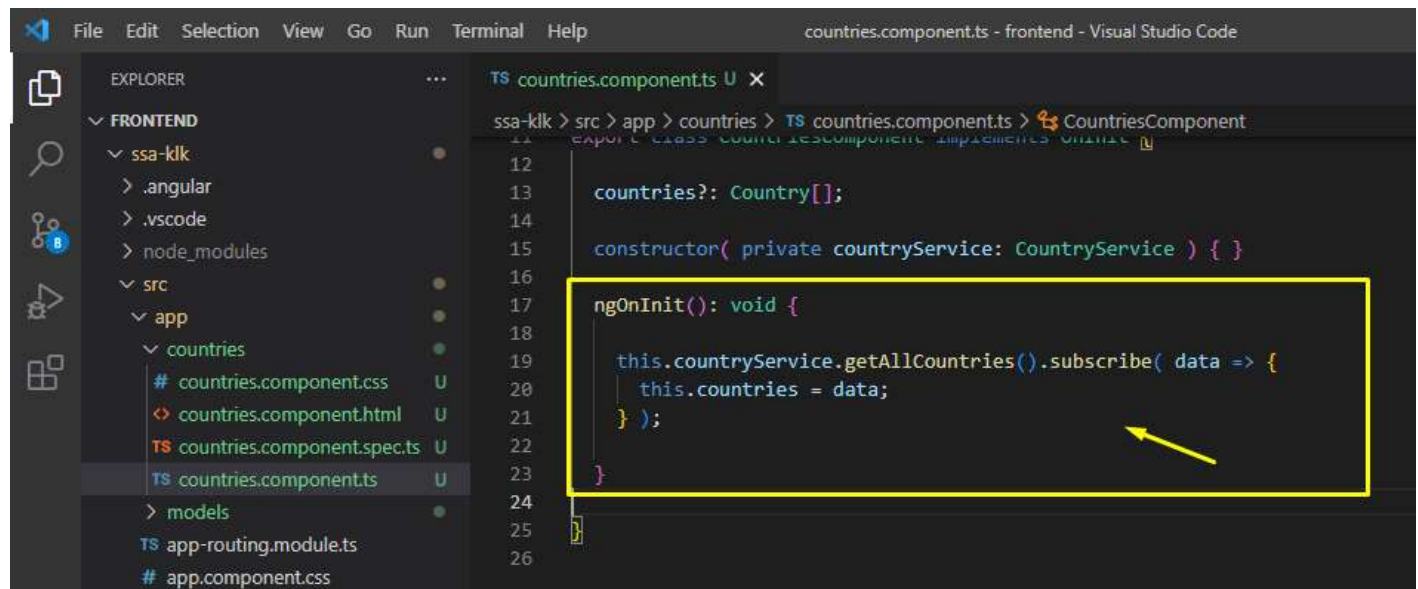


Nakon toga popunimo konstruktor na sledeci nacin: `private countryService: CountryService`



Nakon toga popunjavamo ngOnInit() { } sledecim kodom.

```
this.countryService.getAllCountries().subscribe( data => {  
  this.countries = data;  
});
```



```
countries.component.ts  x  
ssa-klk > src > app > countries > TS countries.component.ts > CountriesComponent  
12  
13 countries?: Country[];  
14  
15 constructor( private countryService: CountryService ) { }  
16  
17 ngOnInit(): void {  
18  
19   this.countryService.getAllCountries().subscribe( data => {  
20     this.countries = data;  
21   } );  
22 }  
23  
24  
25  
26
```

I ovim završavamo sa komponentom.



Prelazimo u html deo gde kreiramo tabelu i smestamo podatke u nju.

```
<table border="1" align="center" >
```

```
  <thead>
```

```
    <tr height="50px" >
```

```
      <th>Zastava</th>
```

```
      <th>Zemlja</th>
```

```
      <th>Region</th>
```

```
      <th>Glavni grad</th>
```

```
      <th>Broj stanovnika</th>
```

```
    </tr>
```

```
  </thead>
```

```
  <tbody align="center" >
```

```
    <tr *ngFor="let country of countries" >
```

```
      <td>  </td>
```

```
      <td> {{ country.name }} </td>
```

```
      <td> {{ country.region }} </td>
```

```
      <td> {{ country.capital }} </td>
```

```
      <td> {{ country.population }} </td>
```

```
    </tr>
```

```
  </tbody>
```

```
  <tfoot>
```

```
    <br>
```

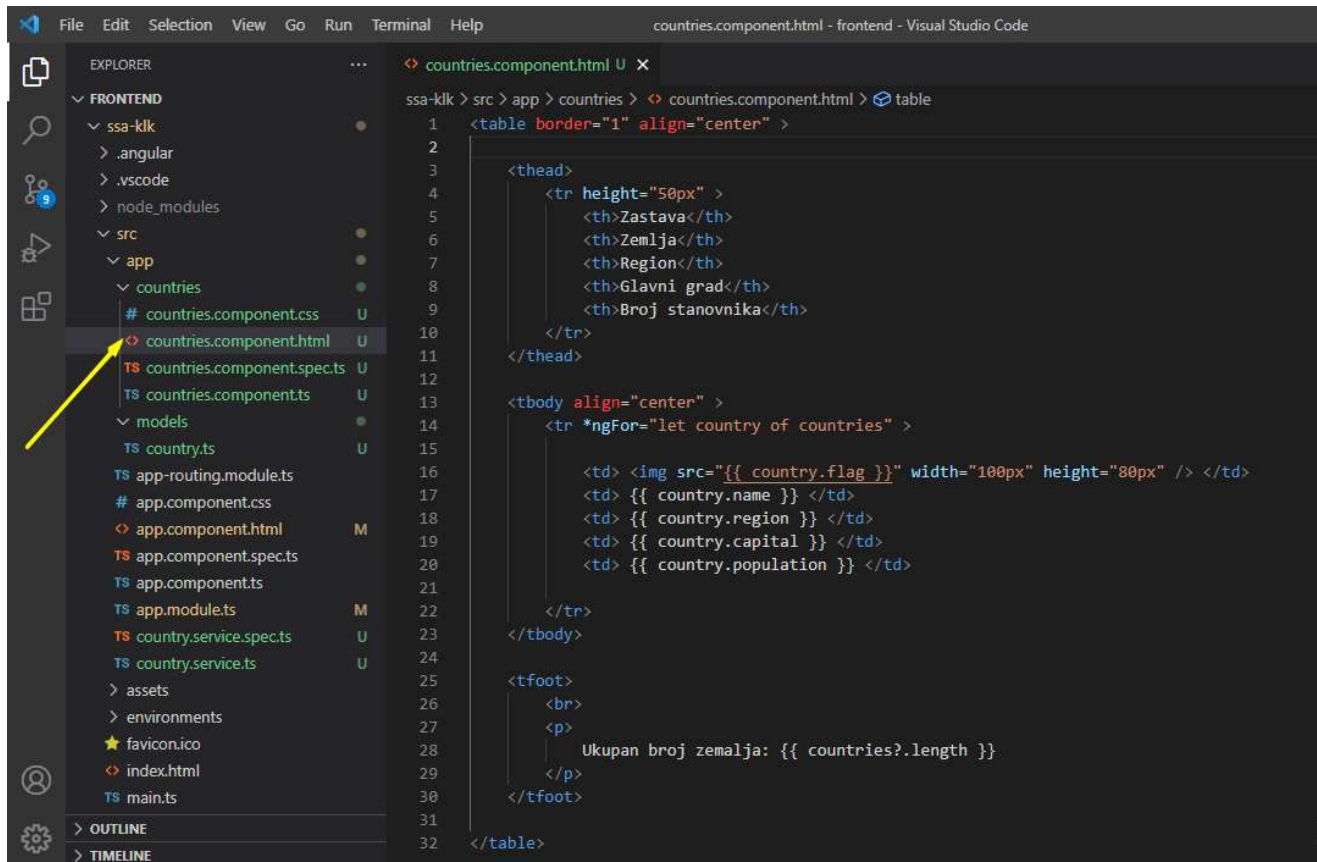
```
    <p>
```

```
      Ukupan broj zemalja: {{ countries?.length }}
```

```
    </p>
```

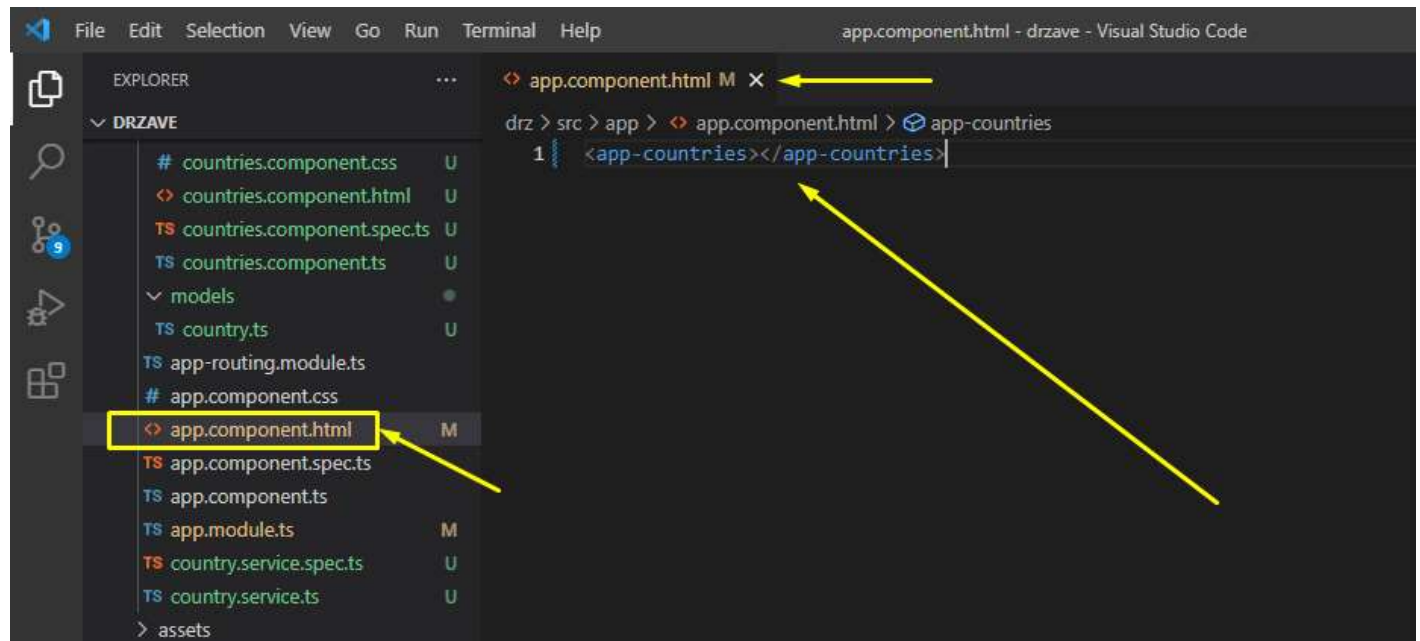
```
  </tfoot>
```

```
</table>
```










Pre pokretanja i provere uraadjeno iz fajla **app.component.html** se briše sve i piše sledeća linija koda:

`<app-countries></app-countries>`



SsaKlik

localhost:4200

Zastava	Zemlja	Region	Glavni grad	Broj stanovnika
	Afghanistan	Asia	Kabul	40218234
	Åland Islands	Europe	Mariehamn	28875
	Albania	Europe	Tirana	2837743
	Algeria	Africa	Algiers	44700000
	American Samoa	Oceania	Pago Pago	55197
	Andorra	Europe	Andorra la Vella	77265
	Angola	Africa	Luanda	23966369

Resenje zadatka.

**Ako dodje do greske na pocetku** da nece npm install ili bilo kakav pocetak rada sa sledece putanje  
C:\Users\Lenovo\AppData\Roaming\npm fajl pod imenom ng.ps1 obrisemo, posle bi trebalo da radi.