

Instalirati NodeJS <https://nodejs.org/en/download>

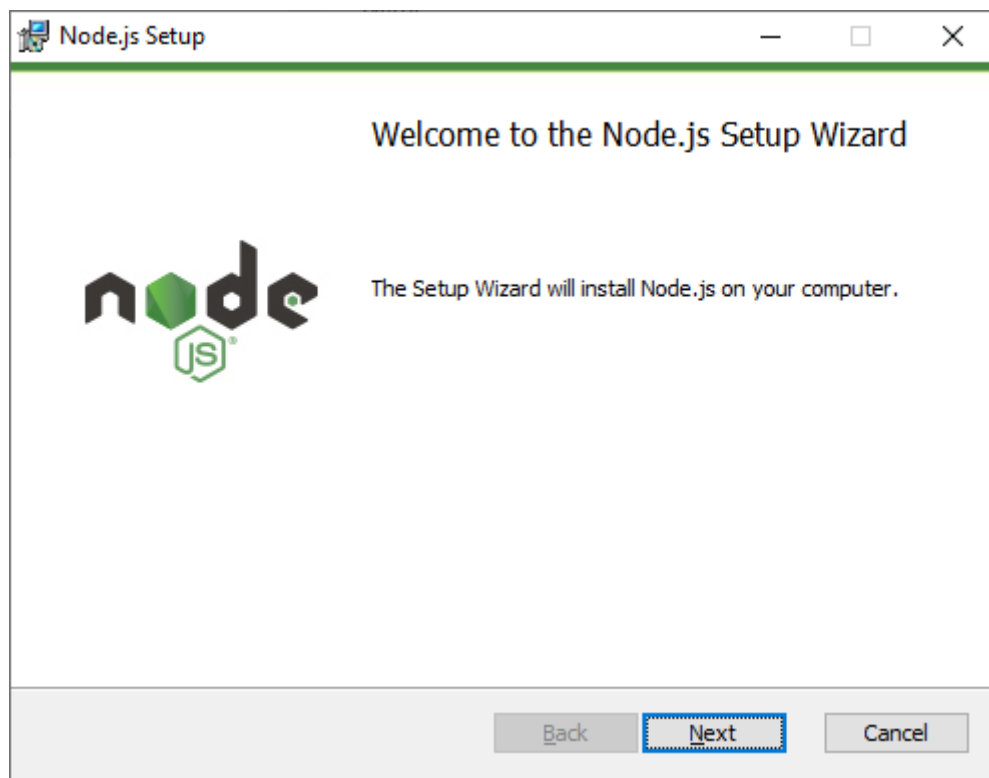
Downloads

Latest LTS Version: 18.18.0 (includes npm 9.8.1)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

LTS Recommended For Most Users	Current Latest Features	
<b>Windows Installer</b> node-v18.18.0-x64.msi	<b>macOS Installer</b> node-v18.18.0.pkg	<b>Source Code</b> node-v18.18.0.tar.gz
Windows Installer (.msi)	32-bit	64-bit
Windows Binary (.zip)	32-bit	64-bit
macOS Installer (.pkg)	64-bit / ARM64	
macOS Binary (.tar.gz)	64-bit	ARM64
Linux Binaries (x64)	64-bit	
Linux Binaries (ARM)	ARMv7	ARMv8

Ostaviti sve opcije kako su postavljene, Next, next, Next 😊



## Provjera instalirane verzije

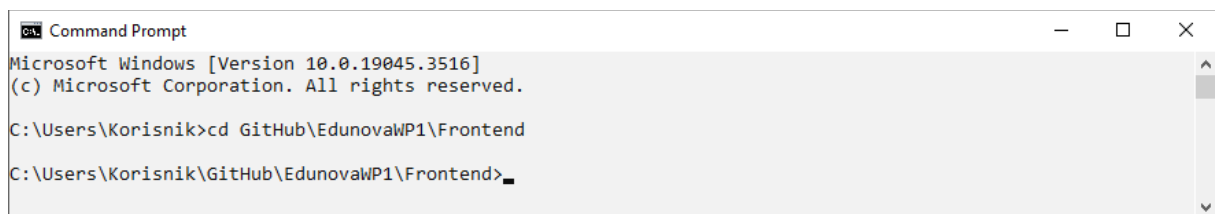


```
Command Prompt
Microsoft Windows [Version 10.0.19045.3516]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Korisnik>npm -version
9.8.1

C:\Users\Korisnik>
```

## Pozicionirano se na naš Frontend direktorij na github repozitoriju



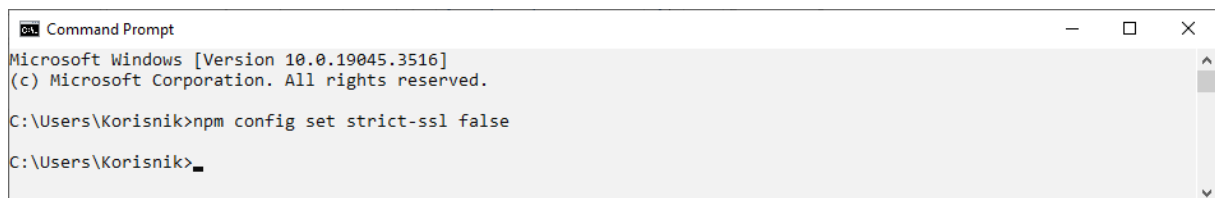
```
Command Prompt
Microsoft Windows [Version 10.0.19045.3516]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Korisnik>cd GitHub\EdunovaWP1\Frontend

C:\Users\Korisnik\GitHub\EdunovaWP1\Frontend>
```

Prije same instalacije predloška moramo onemogućiti strict SSL da nemamo problema s certifikatima u lokalnom razvoju.

**npm config set strict-ssl false**



```
Command Prompt
Microsoft Windows [Version 10.0.19045.3516]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Korisnik>npm config set strict-ssl false

C:\Users\Korisnik>
```

Generirano React aplikaciju s PWA predloškom naziva edunova-pwa

**npx create-react-app edunova-pwa --template cra-template-pwa**

```
Command Prompt
C:\Users\Korisnik\GitHub\EdunovaWP1\Frontend>npx create-react-app edunova-pwa --template cra-template-pwa

Creating a new React app in C:\Users\Korisnik\GitHub\EdunovaWP1\Frontend\edunova-pwa.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template-pwa...

added 1458 packages in 50s
241 packages are looking for funding
  run `npm fund` for details

Installing template dependencies using npm...
added 69 packages, and changed 1 package in 8s
245 packages are looking for funding
  run `npm fund` for details
Removing template package using npm...

removed 1 package, and audited 1527 packages in 3s
245 packages are looking for funding
  run `npm fund` for details
6 high severity vulnerabilities

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

Success! Created edunova-pwa at C:\Users\Korisnik\GitHub\EdunovaWP1\Frontend\edunova-pwa
Inside that directory, you can run several commands:

  npm start
    Starts the development server.

  npm run build
    Bundles the app into static files for production.

  npm test
    Starts the test runner.

  npm run eject
    Removes this tool and copies build dependencies, configuration files
    and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

  cd edunova-pwa
  npm start

Happy hacking!
C:\Users\Korisnik\GitHub\EdunovaWP1\Frontend>
```

Ukoliko se pojavi greška:

```
C:\Users\Katedra\Documents\GitHub\EdunovaWP1\Frontend>npx create-react-app edunova-pwa --template cra-template-pwa
```

npm ERR! code ENOENT

npm ERR! syscall lstat

npm ERR! path C:\Users\Katedra\AppData\Roaming\npm

npm ERR! errno -4058

npm ERR! enoent ENOENT: no such file or directory, lstat 'C:\Users\Katedra\AppData\Roaming\npm'

npm ERR! enoent This is related to npm not being able to find a file.

npm ERR! enoent

Tada je u direktoriju (podebljano) potrebno napraviti direktorij npm:

<https://stackoverflow.com/questions/25093276/node-js-windows-error-enoent-stat-c-users-rt-appdata-roaming-npm>

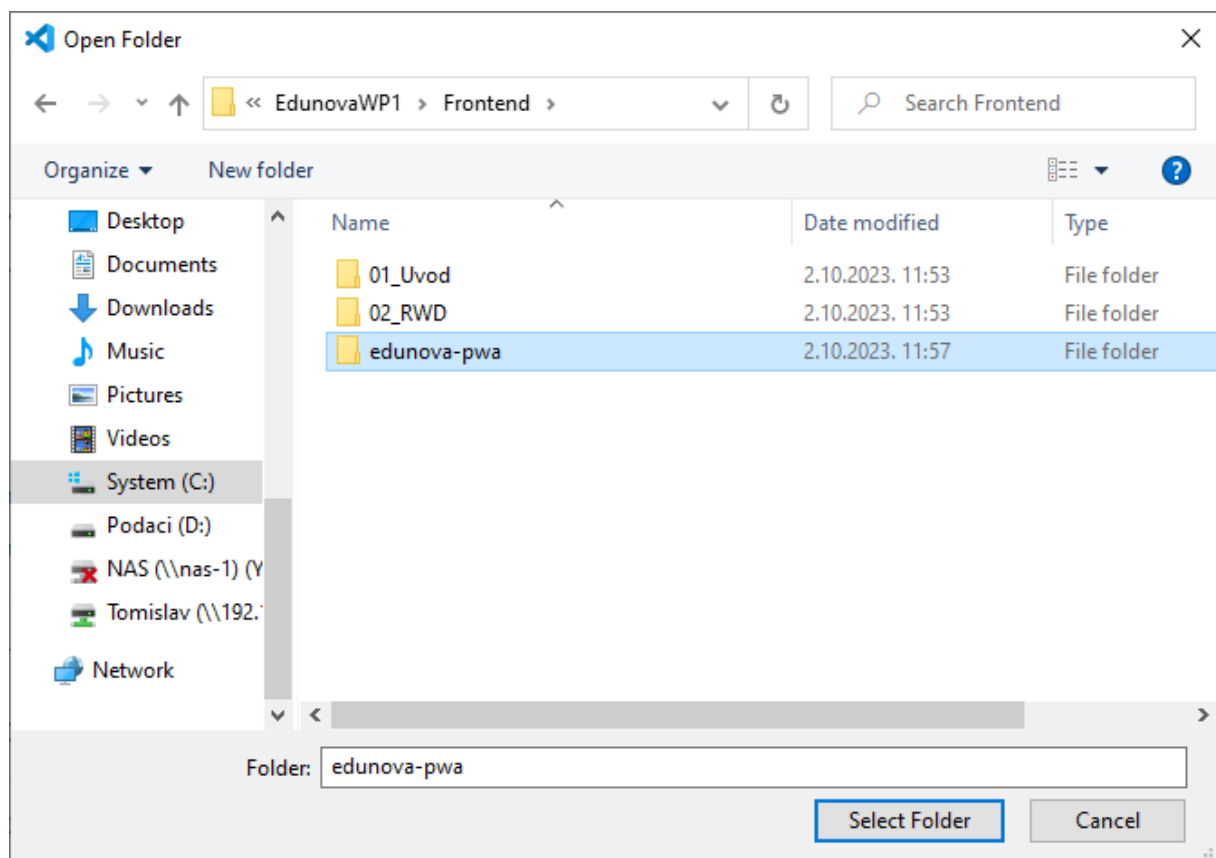
O progresivnim mrežnim aplikacijama čitati na

<https://web.dev/progressive-web-apps/>

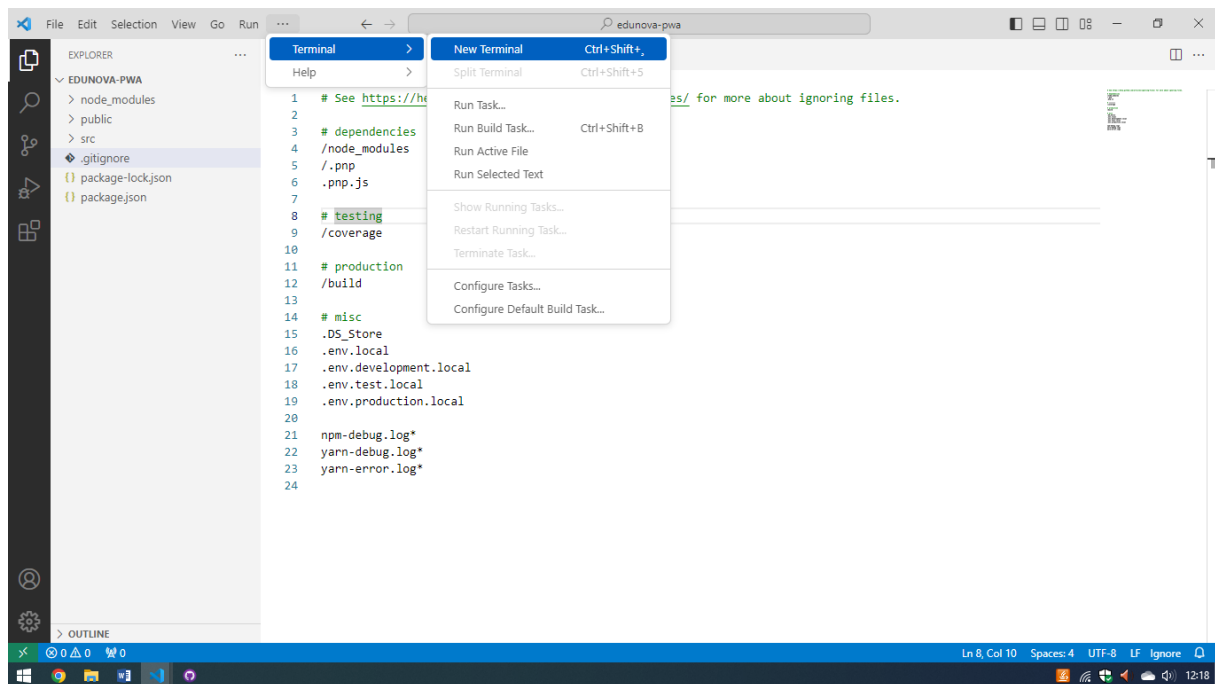
<https://www.swing2app.com/blog/web-app-vs-progressive-web-app-why-are-they-different-from-each-other/>

Ova vrsta predložka nam omogućuje da napravimo mrežnu aplikaciju koju si korisnici mogu postaviti na početni zaslون svojeg uređaja. Ne radi se o prečacu na mrežno mjesto već o iskustvu mobilne aplikacije.

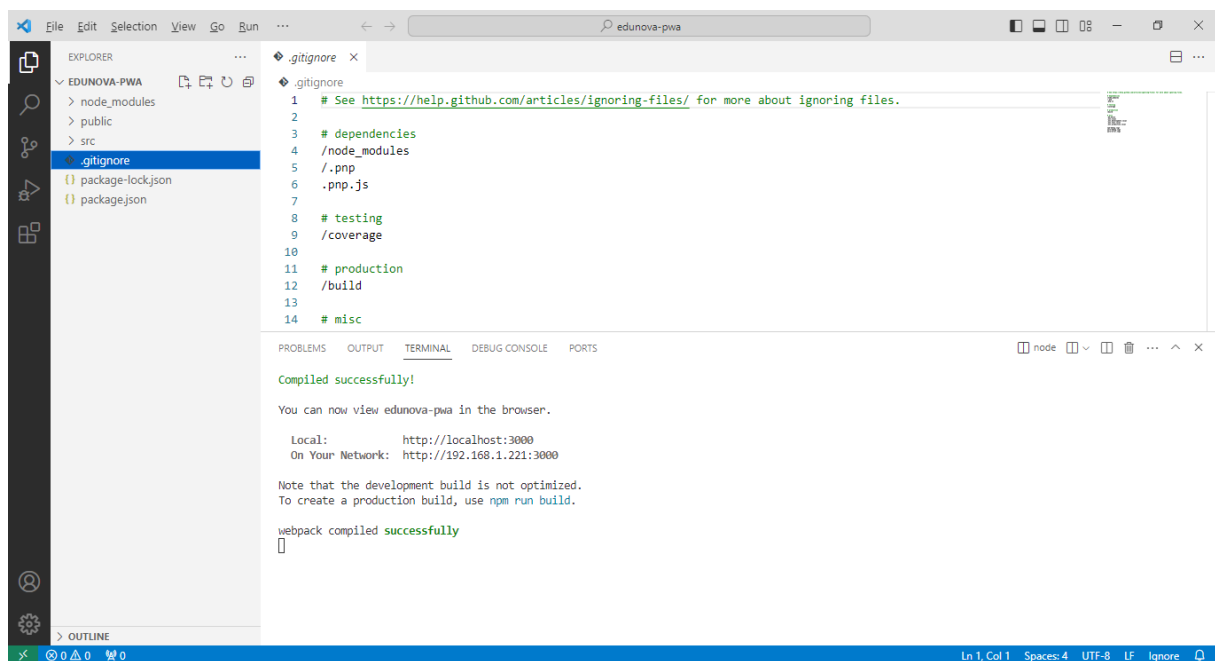
Otvorimo Visual Studio Code i otvorimo direktorij **edunova-pwa**



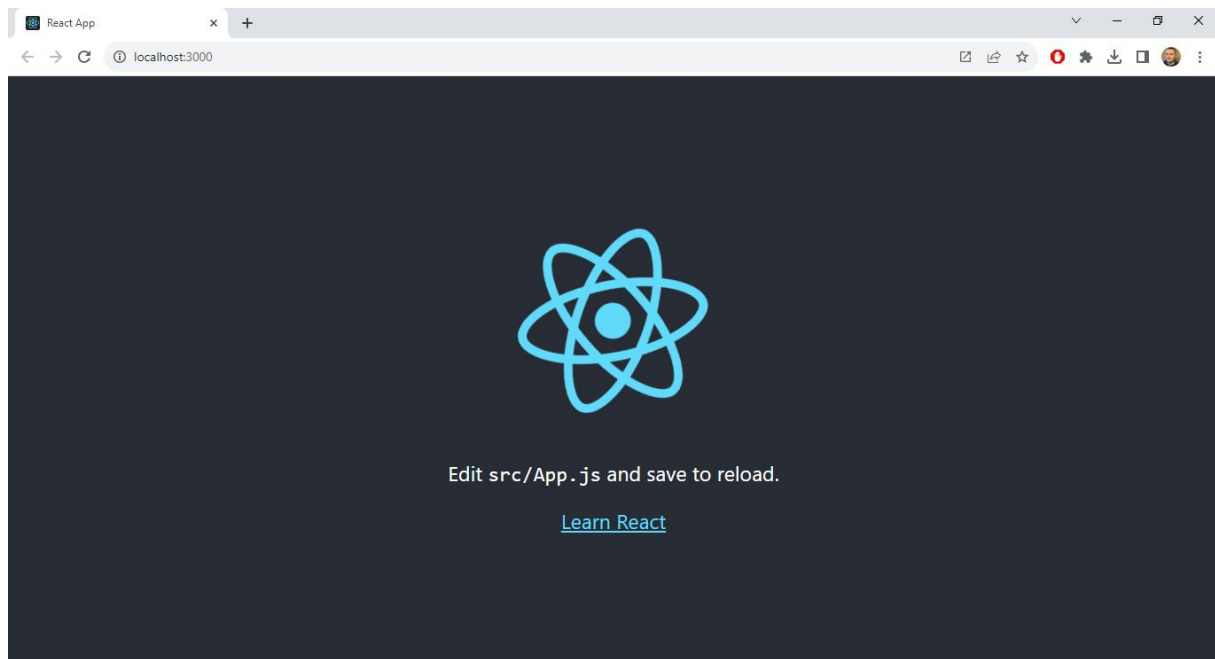
Kako bi dobili našu React PWA aplikaciju u root direktoriju te u izborniku odaberemo Terminal > New Terminal



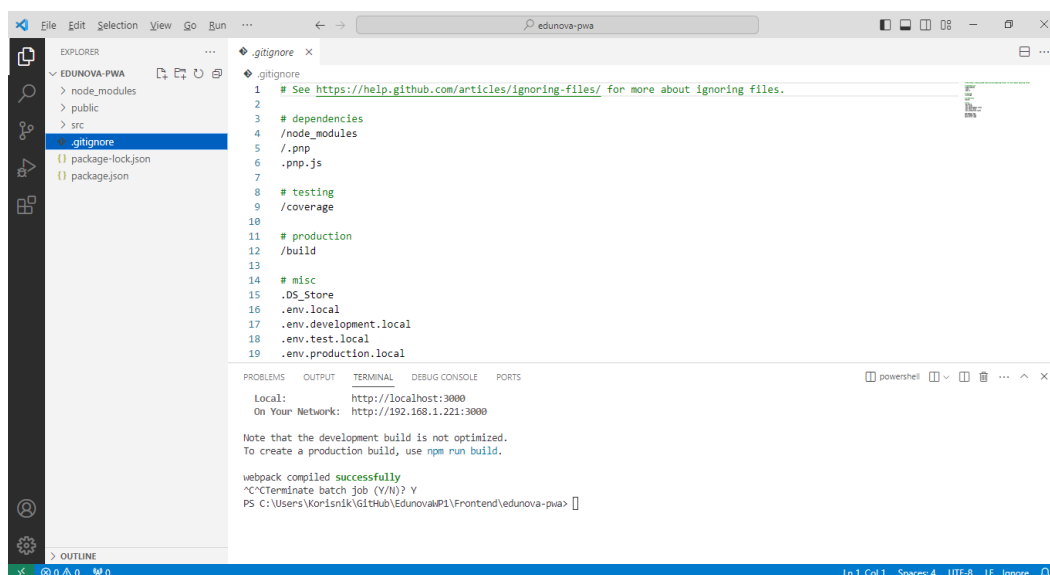
U Terminal upišemo **npm start** kako bi pokrenuli predložak aplikacije



Otvari se preglednik s našom aplikacijom s našeg računala



Za prekidanje rada servera u VSC terminalu na tipkovnici koristimo kombinaciju tipki CTRL + C



Trenutno se verzija za produkciju gradi (build-a) u build direktorij od edunova-pwa. Mi želimo da verzija za produkciju ide u naš wwwroot direktorij od naše Backend aplikacije. Stoga moramo prilagoditi skriptu u datoteci package.json na način

Staro stanje

```
"build": "react-scripts build",
```

Novo stanje

```
"build": "react-scripts build && rmdir  
..\..\..\CSHARP\EdunovaWebAPI\EdunovaApp\wwwroot /s /q && move /y build  
../../CSHARP/EdunovaWebAPI/EdunovaApp/wwwroot",
```

U VSC terminalu izvedemo naredbu **npm run build**

Objašnjenje:

Nakon što je build gotov u direktoriju edunova-pwa se pojavi novi direktorij build i u njemu se sve datoteke potrebne za produkciju. Međutim, te datoteke se moraju nalaziti u našem wwwroot direktoriju u našoj Backend aplikaciji. Stoga dio naredbe

```
&& rmdir ....\..\CSHARP\EdunovaWebAPI\EdunovaApp\wwwroot /s /q
```

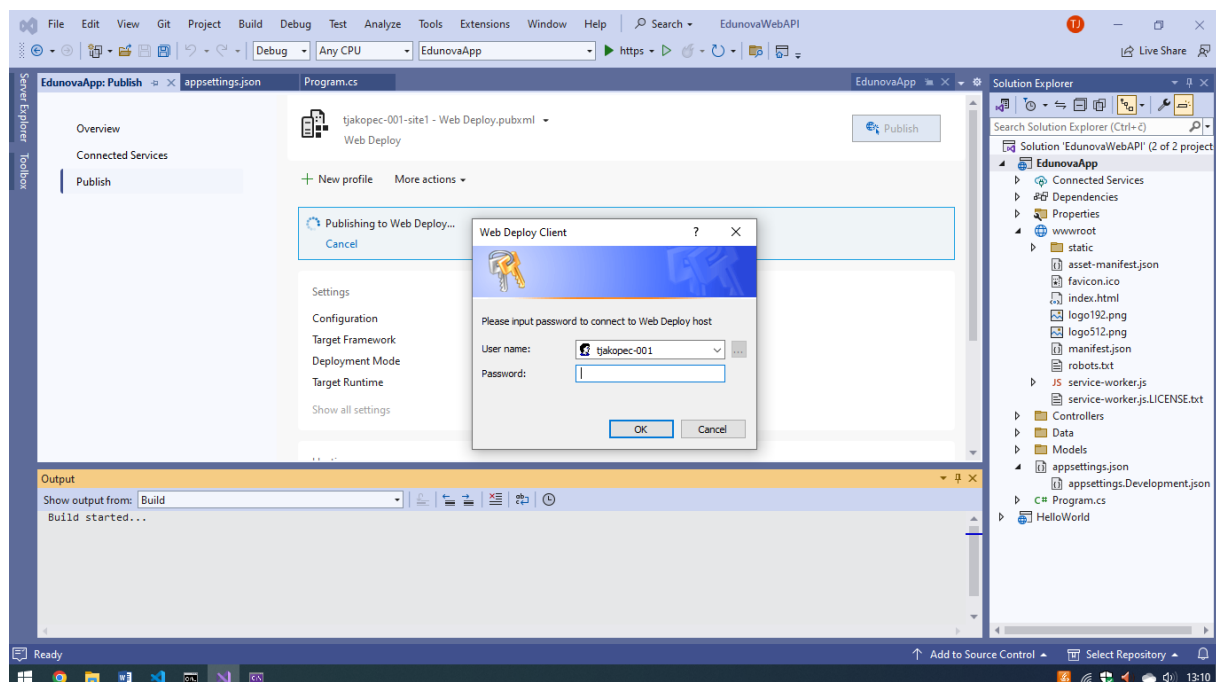
Obriše wwwroot direktorij koji se nalazi od nas relativno na dva direktorija iznad (..\). A dvostruki \\ koristimo zašto što je prvi \ escape char koji onda daje zapravo drugi znak (jedan \ koji i želimo)

Drugi dio naredbe

```
&& move /y build ../../CSHARP/EdunovaWebAPI/EdunovaApp/wwwroot
```

Prebaci sve datoteke iz build direktorija u wwwroot direktorij

U Visual Studio-u vidimo u wwwroot direktoriju sve potrebne datoteke iz frontend-a i možemo napraviti publish



Nakon uspješne objave aplikacije u pregledniku se otvara

