

Ingeniera de Software 3

TP 5: Herramientas de construccion de software.

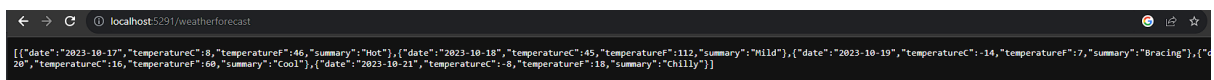
4.1: Creamos el proyecto.

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/trabajo-practico-5 (main)
$ dotnet new webapi -n MiProyectoWebAPI
The template "ASP.NET Core Web API" was created successfully.

Processing post-creation actions...
Restoring C:\Users\Nico\Documents\IngSoft3\trabajo-practico-5\MiProyectoWebAPI\MiProyectoWebAPI.csproj:
  Determining projects to restore...
  Restored C:\Users\Nico\Documents\IngSoft3\trabajo-practico-5\MiProyectoWebAPI\MiProyectoWebAPI.csproj (in 1.28 sec).
Restore succeeded.
```

Ejecutamos la aplicacion y vamos a la url.

```
ebAPI (main)
$ dotnet run
Building...
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5291
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: C:\Users\Nico\Documents\IngSoft3\trabajo-practico-5\MiProyectoWebAPI
warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
      Failed to determine the https port for redirect.
```



The screenshot shows a web browser window with the address bar displaying "localhost:5291/weatherforecast". The page content is a JSON array of weather forecast data. The data includes dates, temperatures in Celsius and Fahrenheit, and summaries of the weather conditions.

```
[{"date": "2023-10-17", "temperatureC": 18, "temperatureF": 46, "summary": "Hot"}, {"date": "2023-10-18", "temperatureC": 45, "temperatureF": 112, "summary": "Mild"}, {"date": "2023-10-19", "temperatureC": -14, "temperatureF": 7, "summary": "Bracing"}, {"date": "2023-10-20", "temperatureC": 16, "temperatureF": 60, "summary": "Cool"}, {"date": "2023-10-21", "temperatureC": -8, "temperatureF": 18, "summary": "Chilly"}]
```

Revisamos el codigo y borramos los directorios “bin” y “obj”

```

MiProyectoWebAPI.csproj
1  <Project Sdk="Microsoft.NET.Sdk.Web">
2
3      <PropertyGroup>
4          <TargetFramework>net7.0</TargetFramework>
5          <Nullable>enable</Nullable>
6          <ImplicitUsings>enable</ImplicitUsings>
7      </PropertyGroup>
8
9      <ItemGroup>
10         <PackageReference Include="Microsoft.AspNetCore.OpenApi" Version="7.0.12" />
11         <PackageReference Include="Newtonsoft.Json" Version="13.0.3" />
12         <PackageReference Include="Swashbuckle.AspNetCore" Version="6.5.0" />
13     </ItemGroup>
14
15 </Project>
16

```

Agregamos la libreria Newtonsoft

```

Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/trabajo-practico-5/MiProyectoWebAPI (main)
$ dotnet add package Newtonsoft.Json
Determining projects to restore...

```

Volvemos a eliminar “bin” y “obj” y corremos nuevamente.

```

[{"date": "2023-10-17", "temperature": 45, "summary": "Chilly"}, {"date": "2023-10-18", "temperature": 37, "summary": "Warm"}, {"date": "2023-10-19", "temperature": -13, "summary": "Baldy"}, {"date": "2023-10-20", "temperature": 23, "summary": "Chilly"}, {"date": "2023-10-21", "temperature": 16, "summary": "Bracing"}]

```

Por ultimo revisamos el contenido del directorio bin

```

MiProyectoWebAPI
└─ bin \ Debug \ net7.0
    {} appsettings.Development.json
    {} appsettings.json
    ≡ Microsoft.AspNetCore.OpenApi.dll
    ≡ Microsoft.OpenApi.dll
    {} MiProyectoWebAPI.deps.json
    ≡ MiProyectoWebAPI.dll
    ≡ MiProyectoWebAPI.exe
    ≡ MiProyectoWebAPI.pdb
    {} MiProyectoWebAPI.runtimeconfig.j...
    ≡ Newtonsoft.Json.dll
    ≡ Swashbuckle.AspNetCore.Swagger....
    ≡ Swashbuckle.AspNetCore.Swagger...
    ≡ Swashbuckle.AspNetCore.Swagger...

```

4.2: Ahora un ejemplo con nodejs

Creamos la aplicacion:

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/trabajo-practico-5 (main)
$ npx create-react-app my-app
npm WARN exec The following package was not found and will be installed: create-react-app@5.0.1
npm WARN deprecated tar@2.2.2: This version of tar is no longer supported, and will not receive security updates. Please upgrade asap.

Creating a new React app in C:\Users\Nico\Documents\IngSoft3\trabajo-practico-5\my-app.

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

Corremos

```
Nico@DESKTOP-MDI8QUJ MINGW64 ~/Documents/IngSoft3/trabajo-practico-5/my-app (main)
$ npm start

> my-app@0.1.0 start
> react-scripts start

(node:6480) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
(Use 'node --trace-deprecation ...' to show where the warning was created)
(node:6480) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use the 'setupMiddlewares' option.
Starting the development server...

One of your dependencies, babel-preset-react-app, is importing the
"@babel/plugin-proposal-private-property-in-object" package without
declaring it in its dependencies. This is currently working because
"@babel/plugin-proposal-private-property-in-object" is already in your
node_modules folder for unrelated reasons, but it may break at any time.

babel-preset-react-app is part of the create-react-app project, which
is not maintained anymore. It is thus unlikely that this bug will
ever be fixed. Add "@babel/plugin-proposal-private-property-in-object" to
your devDependencies to work around this error. This will make this message
go away.

Compiled successfully!

You can now view my-app in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://10.0.0.5:3000

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully
```



Edit `src/App.js` and save to reload.

[Learn React](#)

4.3: Build para otro lenguajes.

- 1- Java: Maven, Gradle, Ant.
- 2- C++: CMake, Make, Bazel.
- 3- C#: MSBuild, NuGet, Visual Studio.
- 3- Visual Basic .NET: MSBuild, NuGet, Visual Studio.
- 4- JavaScript: Webpack, Gulp, Grunt, npm.
- 5- PHP: Composer, Phing.
- 6- Swift: Xcode, CocoaPods, Carthage.
- 7- Objective-C: Xcode, CocoaPods.
- 8- TypeScript: npm, Webpack.
- 9- Ruby: Rake, Bundler.
- 10- Go: Go Tools, dep.