Ingeniera de Software 3

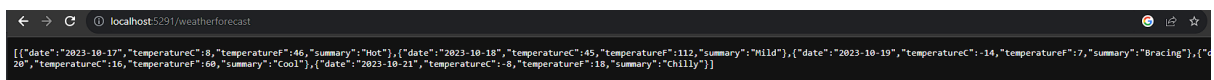# TP 5: Herramientas de construccion de software.

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\M
iProyectoWebAPI.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\MiP
royectoWebAPI
warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
      Failed to determine the https port for redirect.
```

[{"date":"2023-10-17","temperatureC":8,"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/MiProyectoW
ebAPI (main)
$ dotnet add package Newtonsoft.Json
  Determining projects to restore...
```

Volvemos a eliminar "bin" y "obj" y corremos nuevamente.

[{"date":"2023-10-17","temperatureC":45,"temperatureF":112,"summary":"Chilly"},{"date":"2023-10-18","temperatureC":3,"temperatureF":37,"summary":"Warm"},{"date":"2023-10-19","temperatureC":-13,"temperatureF":9,"summary":"Balmy"},{"date":"2023-10-20","temperatureC":23,"temperatureF":73,"summary":"Chilly"},{"date":"2023-10-21","temperatureC":6,"temperatureF":42,"summary":"Bracing"}]

Por ultimo revisamos el contenido del directorio bin

```
∨ MIPROYECTOWEBAPI          L+ L+ ⟳ ⊟
  ∨ 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:

Corremos

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.