

Primer Proyecto GitHub

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Este proyecto consistirá en la creación de un repositorio de GitHub, posteriormente instalaremos todas las herramientas para poder empezar a trabajar con typescript.

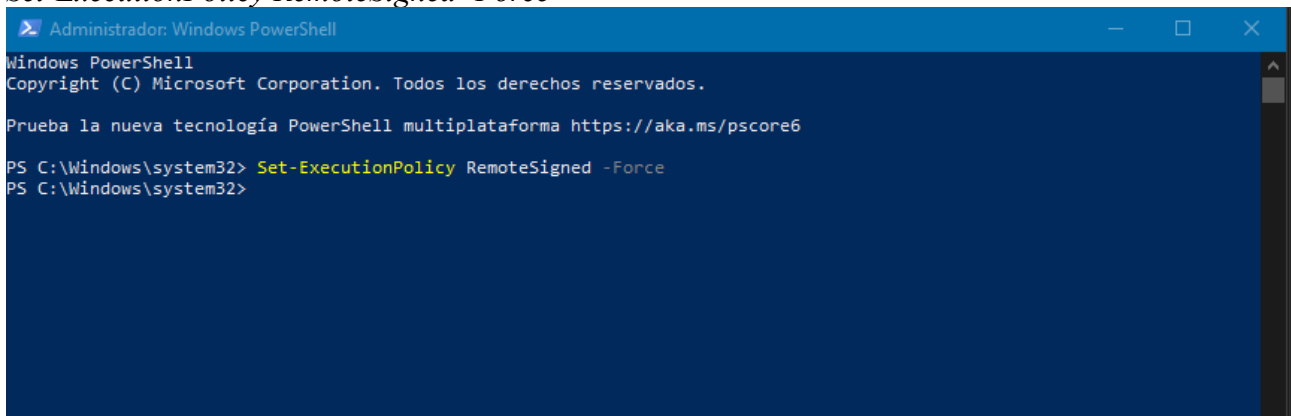
Nodejs

En primer lugar instalaremos nodejs descargándonos el .msi correspondiente desde su pagina oficial:

<https://nodejs.org/es/download/>

Posteriormente hay que permitir la ejecución de scripts en powershell con el siguiente comando en modo administrador:

Set-ExecutionPolicy RemoteSigned -Force



```
Administrador: Windows PowerShell
Windows PowerShell
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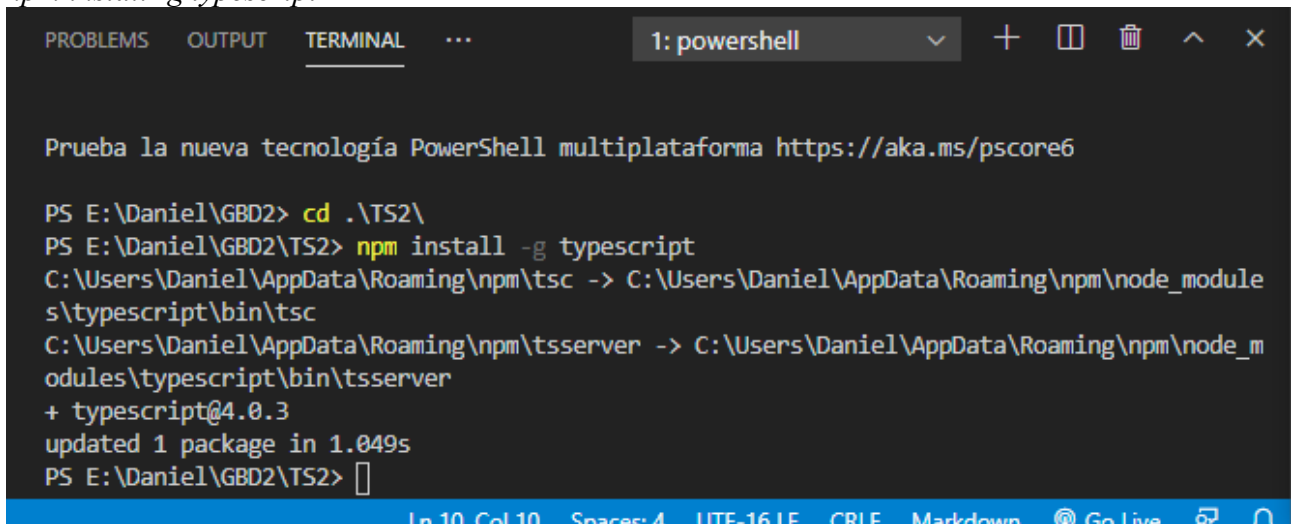
Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Windows\system32> Set-ExecutionPolicy RemoteSigned -Force
PS C:\Windows\system32>
```

Typescript

En tercer lugar ya podremos instalar typescript con el siguiente comando:

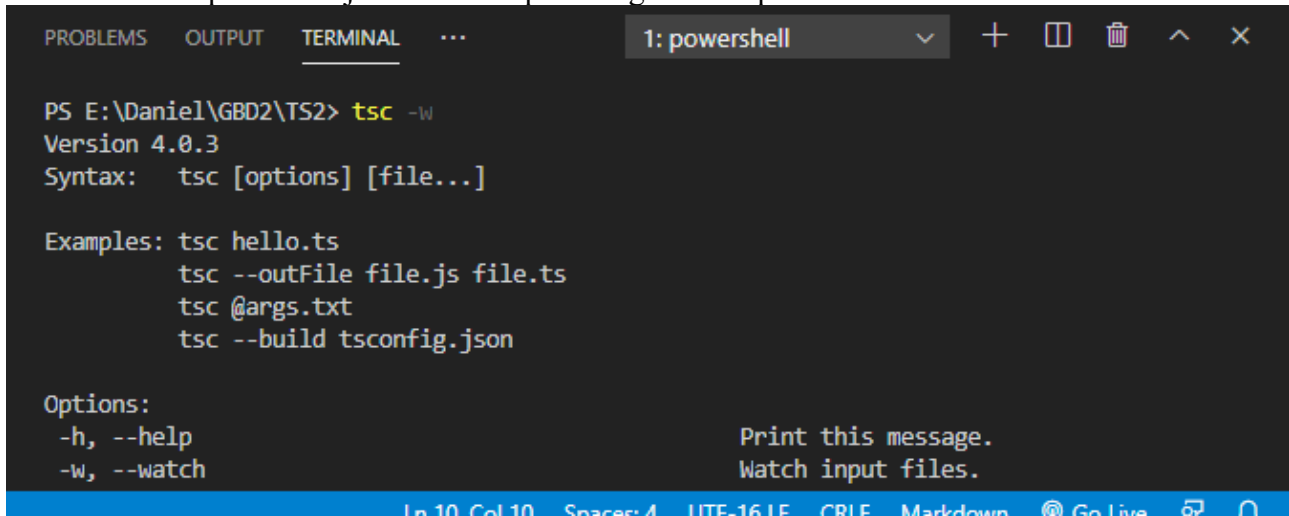
npm install -g typescript



```
PROBLEMS OUTPUT TERMINAL ... 1: powershell
Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS E:\Daniel\GBD2> cd .\TS2\
PS E:\Daniel\GBD2\TS2> npm install -g typescript
C:\Users\Daniel\AppData\Roaming\npm\tsc -> C:\Users\Daniel\AppData\Roaming\npm\node_modules\typescript\bin\tsc
C:\Users\Daniel\AppData\Roaming\npm\tsserver -> C:\Users\Daniel\AppData\Roaming\npm\node_modules\typescript\bin\tsserver
+ typescript@4.0.3
updated 1 package in 1.049s
PS E:\Daniel\GBD2\TS2>
```

Posteriormente podemos ejecutar `tsc -w` para asegurarnos que este instalado:



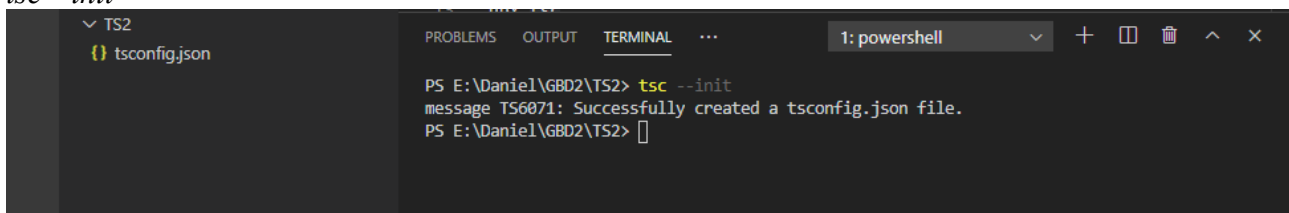
```
PROBLEMS OUTPUT TERMINAL ... 1: powershell
PS E:\Daniel\GBD2\TS2> tsc -w
Version 4.0.3
Syntax: tsc [options] [file...]

Examples: tsc hello.ts
          tsc --outFile file.js file.ts
          tsc @args.txt
          tsc --build tsconfig.json

Options:
-h, --help          Print this message.
-w, --watch         Watch input files.
```

Ahora ejecutaremos el siguiente comando para crear el archivo de configuración necesarios, que posteriormente subiremos a github.

`tsc --init`



```
PROBLEMS OUTPUT TERMINAL ... 1: powershell
PS E:\Daniel\GBD2\TS2> tsc --init
message TS6071: Successfully created a tsconfig.json file.
PS E:\Daniel\GBD2\TS2>
```

En el archivo de configuración creado debemos cambiar “es5” por “es6”, descomentar la línea “outDir” y añadir “./dist” para que no suba dicha carpeta a github.

Debería quedarnos así:

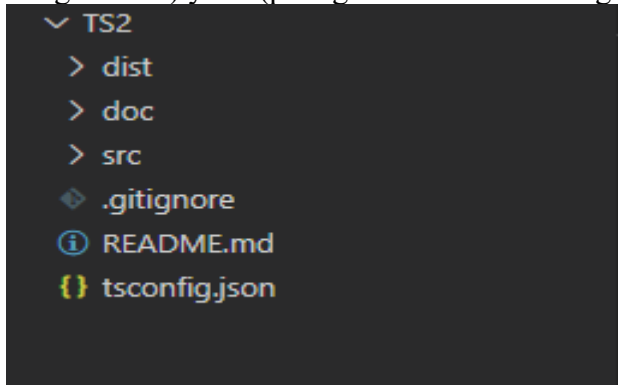
```
TS2 > {} tsconfig.json > ...
1  {
2    "compilerOptions": {
3      /* Visit https://aka.ms/tsconfig.json to read more about this file */
4
5      /* Basic Options */
6      // "incremental": true,           /* Enable incremental compilation */
7      "target": "es6",                /* Specify ECMAScript target version 'es5' (default), 'es6', 'es2015', 'es2016', 'es2017', 'es2018', 'es2019', 'es2020', 'esnext' */
8      "module": "commonjs",           /* Specify module code generation 'none', 'commonjs', 'amd', 'system', 'umd', 'es2015', 'es2020', 'esnext' */
9      // "lib": [],                     /* Specify library files to be included in the compilation. See 'types' */
10     // "allowJs": true,                /* Allow javascript files to be compiled */
11     // "checkJs": true,               /* Report errors in .js files */
12     // "jsx": "preserve",              /* Specify JSX code generation: 'preserve', 'react-native', 'react' */
13     // "declaration": true,           /* Generates corresponding '.d.ts' file */
14     // "declarationMap": true,         /* Generates a sourcemap for each .d.ts file */
15     // "sourceMap": true,              /* Generates corresponding '.map' file */
16     // "outFile": "./",               /* Concatenate and emit output to single file */
17     "outDir": "./dist",              /* Redirect output structure to the directory. By default, the output is in the same directory as the input. */
18     // "rootDir": "./",               /* Specify the root directory of source files. When used with 'tsconfig.json', the rootDir is the directory of the configuration file. */
19     // "composite": true,              /* Enable project compilation */
20     // "tsBuildInfoFile": "./",        /* Specify file to store incremental compilation information */
21     // "removeComments": true,         /* Do not emit comments to output */
22     // "noEmit": true,                 /* Do not emit outputs */
23     // "importHelpers": true,          /* Import emit helpers from 'tslib' */
24     // "downlevelIteration": true,     /* Provide full support for iterables in 'for-of' loops and Object.entries() iterables etc */
25     // "isolatedModules": true,        /* Transpile each file */
26
27     /* Strict Type-Checking Options */
28     "strict": true,                  /* Enable all strict type-checking options */
29     // "noImplicitAny": true,           /* Raise error on expressions with implicit any */
30     // "strictNullChecks": true,        /* Enable strict null checks */
31     // "strictFunctionTypes": true,      /* Enable strict function checks */
32     // "strictBindCallApply": true,     /* Enable strict 'bind', 'call' and 'apply' checks */
33     // "strictPropertyInitialization": true, /* Enable strict checks for property initialization */
34     // "noImplicitThis": true,          /* Raise error on 'this' expressions with an implied 'any' type */
35     // "alwaysStrict": true,            /* Parse in strict mode and emit "use strict" for each source file. */
36
37     /* Additional Checks */
38     // "noUnusedLocals": true,           /* Report errors on unused locals */
39     // "noUnusedParameters": true,      /* Report errors on unused parameters */
40     // "noImplicitReturns": true,        /* Report error when not all code paths in a function return a value */
41     // "noFallthroughCasesInSwitch": true, /* Report errors for fallthrough cases in switch statements */
42
43     /* Module Resolution Options */
44     // "moduleResolution": "node",       /* Specify module resolution strategy: 'node' (default) or 'classic' */
45     // "baseUrl": "./",                 /* Base directory to resolve non-absolute module names */
46     // "paths": {},                     /* A series of entries providing the mapping from logical to physical paths */
47     // "rootDirs": [],                  /* List of root folders whose combined content represents the structure of the project at runtime */
48     // "typeRoots": [],                 /* List of folders to include type definitions from */
49     // "types": [],                     /* Type definition files to be included in the compilation */
50     // "allowSyntheticDefaultImports": true, /* Allow default imports from modules with no default export */
51     // "esModuleInterop": true           /* Enable emit support for JSX factory functions and default imports. Also enables 'allowSyntheticDefaultImports' */
52     // "strictModuleErrorCheck": true    /* Strict module condition checking; true means resolve module names based on the original file. */
53   }
54 }
```

```
TS2 > {} tsconfig.json > ...
28     "strict": true,                                /* Enable all strict
29     // "noImplicitAny": true,                        /* Raise error on exp
30     // "strictNullChecks": true,                    /* Enable strict null
31     // "strictFunctionTypes": true,                  /* Enable strict chec
32     // "strictBindCallApply": true,                  /* Enable strict 'bin
33     // "strictPropertyInitialization": true,         /* Enable strict chec
34     // "noImplicitThis": true,                       /* Raise error on 'th
35     // "alwaysStrict": true,                         /* Parse in strict mo
36
37     /* Additional Checks */
38     // "noUnusedLocals": true,                       /* Report errors on u
39     // "noUnusedParameters": true,                   /* Report errors on u
40     // "noImplicitReturns": true,                    /* Report error when
41     // "noFallthroughCasesInSwitch": true,           /* Report errors for
42
43     /* Module Resolution Options */
44     // "moduleResolution": "node",                   /* Specify module res
45     // "baseUrl": "./",                              /* Base directory to
46     // "paths": {},                                  /* A series of entrie
47     // "rootDirs": [],                              /* List of root folde
48     // "typeRoots": [],                             /* List of folders to
49     // "types": [],                                  /* Type declaration f
50     // "allowSyntheticDefaultImports": true,         /* Allow default impo
51     "esModuleInterop": true,                        /* Enables emit inter
52     // "preserveSymlinks": true,                     /* Do not resolve the
53     // "allowUmdGlobalAccess": true,                 /* Allow accessing UM
54
55     /* Source Map Options */
56     // "sourceRoot": "",                             /* Specify the locati
57     // "mapRoot": "",                                /* Specify the locati
58     // "inlineSourceMap": true,                      /* Emit a single file
59     // "inlineSources": true,                        /* Emit the source al
60
61     /* Experimental Options */
62     // "experimentalDecorators": true,               /* Enables experiment
63     // "emitDecoratorMetadata": true,                /* Enables experiment
64
65     /* Advanced Options */
66     "skipLibCheck": true,                           /* Skip type checking
67     "forceConsistentCasingInFileNames": true        /* Disallow inconsis
68 },
69 "exclude": [
70     "node_modules"
71 ]
72 }
73
```

PROBLEMS OUTPUT TERMINAL ... 1: powershell

message TS6071: Successfully created a tsconfig.json file.
PS E:\Daniel\GBD2\TS2>

Ahora crearemos las carpetas ***doc***(para guardar nuestra documentación) ***src***(para guardar nuestro código en TS) y ***dist***(para guardar nuestro código en JS), y los archivos ***.gitignore*** y ***readme.md***



Git

Para instalar git solo tenemos que irnos a la pagina web oficial y descargarnos el ejecutable que nos corresponda:

<https://git-scm.com/download/win>

Luego ya podremos usar git desde la linea de comandos

VisualStudio

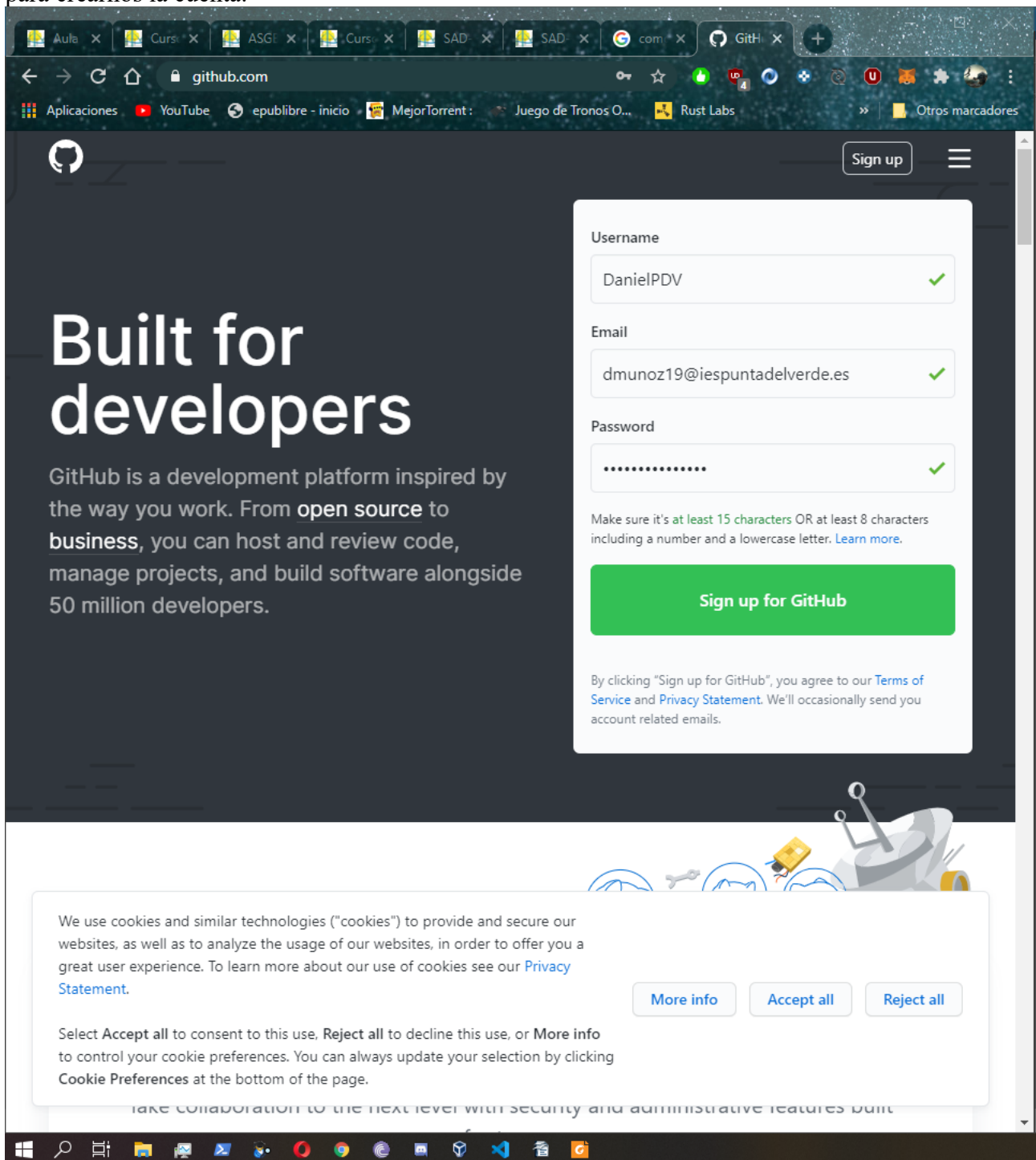
Para descargarnos VisualStudio simplemente nos vamos a su pagina web y nos descargamos el ejecutable correspondiente:

<https://code.visualstudio.com/download>

GitHub

GitHub sera el lugar donde subiremos todos nuestros proyectos y es de vital importancia saber como hacerlo, a continuación detallaré todos los pasos necesarios para crearse una cuenta en github y como subir nuestro proyecto:

En primer lugar nos vamos a la pagina web de GitHub e introducimos todos los datos necesarios para crearnos la cuenta.



The screenshot shows the GitHub website in a web browser. The browser's address bar shows 'github.com'. The page has a dark theme with the GitHub logo in the top left and a 'Sign up' button in the top right. The main heading is 'Built for developers'. Below it, a paragraph states: 'GitHub is a development platform inspired by the way you work. From open source to business, you can host and review code, manage projects, and build software alongside 50 million developers.'

On the right side, there is a sign-up form with the following fields:

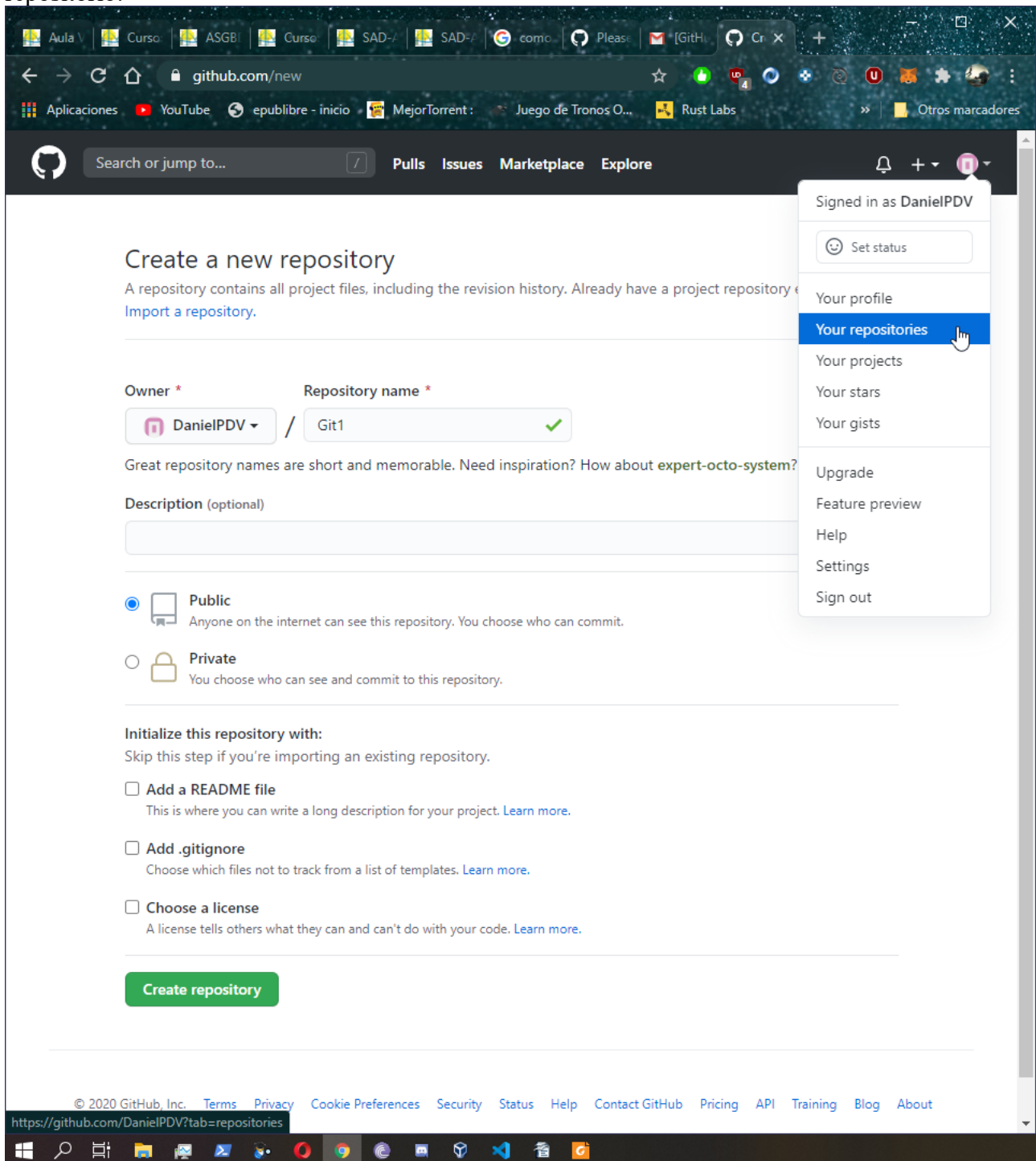
- Username:** 'DanielPDV' with a green checkmark.
- Email:** 'dmunoz19@iespuntadelverde.es' with a green checkmark.
- Password:** A masked password field with a green checkmark.

Below the password field, a note says: 'Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)'

A large green button labeled 'Sign up for GitHub' is positioned below the form. Underneath the button, a disclaimer reads: 'By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.'

At the bottom of the page, there is a cookie consent banner with the text: 'We use cookies and similar technologies ("cookies") to provide and secure our websites, as well as to analyze the usage of our websites, in order to offer you a great user experience. To learn more about our use of cookies see our [Privacy Statement](#).' It includes three buttons: 'More info', 'Accept all', and 'Reject all'. Below this, it says: 'Select **Accept all** to consent to this use, **Reject all** to decline this use, or **More info** to control your cookie preferences. You can always update your selection by clicking **Cookie Preferences** at the bottom of the page.'

Y una vez verificado el email nos vamos a la esquina superior derecha y creamos nuestro primer repositorio:



Una vez creado nos vamos a nuestra carpeta local y ejecutamos los siguientes comandos para subir todo a GitHub

git init

```
PS E:\Daniel\GBD2\TS2> git init
Initialized empty Git repository in E:/Daniel/GBD2/TS2/.git/
```

git add .

git config --global user.email "dmunoz19@iespuntadelverde.es"

git config --global user.name "DanielPDV"

```
PROBLEMS  OUTPUT  TERMINAL  ...
1: powershell
PS E:\Daniel\GBD2\TS2> git add .
PS E:\Daniel\GBD2\TS2> git config --global user.email "dmunoz19@iespuntadelverde.es"
PS E:\Daniel\GBD2\TS2> git config --global user.name "DanielPDV"
PS E:\Daniel\GBD2\TS2> 
```

git commit -m "mensaje"

```
PROBLEMS  OUTPUT  TERMINAL  ...
1: powershell
PS E:\Daniel\GBD2\TS2> git add .
PS E:\Daniel\GBD2\TS2> git config --global user.email "dmunoz19@iespuntadelverde.es"
PS E:\Daniel\GBD2\TS2> git config --global user.name "DanielPDV"
PS E:\Daniel\GBD2\TS2> git commit -m "mi primer commit"
[master (root-commit) 8f71499] mi primer commit
10 files changed, 140 insertions(+)
create mode 100644 .gitignore
create mode 100644 README.md
create mode 100644 dist/holamundo.js
create mode 100644 doc/.~lock.Instalaciones_2.odt#
create mode 100644 doc/Instalaciones.odt
create mode 100644 doc/Instalaciones_2.odt
create mode 100644 doc/comandos_e_instalaciones.txt
create mode 100644 src/holamundo.ts
create mode 100644 src/tiposbasicos.ts
create mode 100644 tsconfig.json
PS E:\Daniel\GBD2\TS2> 
```

git branch -M master

git remote add origin https://github.com/DanielPDV/Git1.git

git push -u origin master

```
PS E:\Daniel\GBD2\TS2> git branch -M master
PS E:\Daniel\GBD2\TS2> git remote add origin https://github.com/DanielPDV/Git1.git
PS E:\Daniel\GBD2\TS2> git push -u origin master
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 16 threads
Compressing objects: 100% (11/11), done.
Writing objects: 100% (15/15), 26.32 KiB | 13.16 MiB/s, done.
Total 15 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/DanielPDV/Git1.git
 * [new branch]      master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
PS E:\Daniel\GBD2\TS2> 
```

Y ya tendremos nuestro proyecto subido:

The screenshot shows a web browser displaying the GitHub repository page for 'DanielPDV / Git1'. The browser's address bar shows the URL 'github.com/DanielPDV/Git1'. The page features a dark header with the GitHub logo, a search bar, and navigation links for 'Pulls', 'Issues', 'Marketplace', and 'Explore'. Below the header, a large light blue banner reads 'Learn Git and GitHub without any code!' with a subtext 'Using the Hello World guide, you'll start a branch, write comments, and open a pull request.' and a green 'Read the guide' button. The repository details section shows 'DanielPDV / Git1' with 'Unwatch', 'Star' (0), and 'Fork' (0) buttons. A navigation bar includes 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', and 'Insights'. The 'Code' tab is active, showing a file tree for the 'master' branch. The files listed are 'dist', 'doc', 'src', '.gitignore', 'README.md', and 'tsconfig.json', all committed '2 minutes ago' by 'mi primer commit'. The 'README.md' file is expanded, showing the text '//Primero debemos instalar node.js. procedemos de la siguiente forma: //1. Hav que'. The right sidebar contains sections for 'About' (no description), 'Releases' (no releases published), and 'Packages' (no packages published).

Learn Git and GitHub without any code!

Using the Hello World guide, you'll start a branch, write comments, and open a pull request.

[Read the guide](#)

DanielPDV / Git1 Unwatch 1 Star 0 Fork 0

Code Issues Pull requests Actions Projects Wiki Security Insights

master Go to file Add file Code

DanielPDV mi primer commit 2 minutes ago 1

File	Commit	Time
dist	mi primer commit	2 minutes ago
doc	mi primer commit	2 minutes ago
src	mi primer commit	2 minutes ago
.gitignore	mi primer commit	2 minutes ago
README.md	mi primer commit	2 minutes ago
tsconfig.json	mi primer commit	2 minutes ago

README.md

//Primero debemos instalar node.js. procedemos de la siguiente forma: //1. Hav que

About No description, website, or topics provided.

Releases No releases published [Create a new release](#)

Packages No packages published [Publish your first package](#)