Installation and Usage Guide

IG-Parser Version 0.6 + Production Module - Local deployment

Introduction

In this document, you will learn how to install and run a web application called IG-Parser-Production, developed in Go (Golang) from a GitHub repository. This tutorial is designed for Windows users with no programming experience.

This version of IG-Parser-Production includes IG-Parser v0.6 developed by Christopher Frantz along with the Excel production module. This module allows the user to process an Excel file containing a dataset with “encoded statements” and obtain the same Excel file as output, but with the parsing for each statement. The parsing format matches the “Tabular Output” format. The development of this new feature has been carried out within the framework of the RESILIENT RULES project, funded by the European Research Council (ERC, Grant# 101044225).

At the end of the document, possible developments that could be integrated into the official IG-Parser website will be presented.

NOTE: This document, along with the code development, is valid as of August 2, 2024.

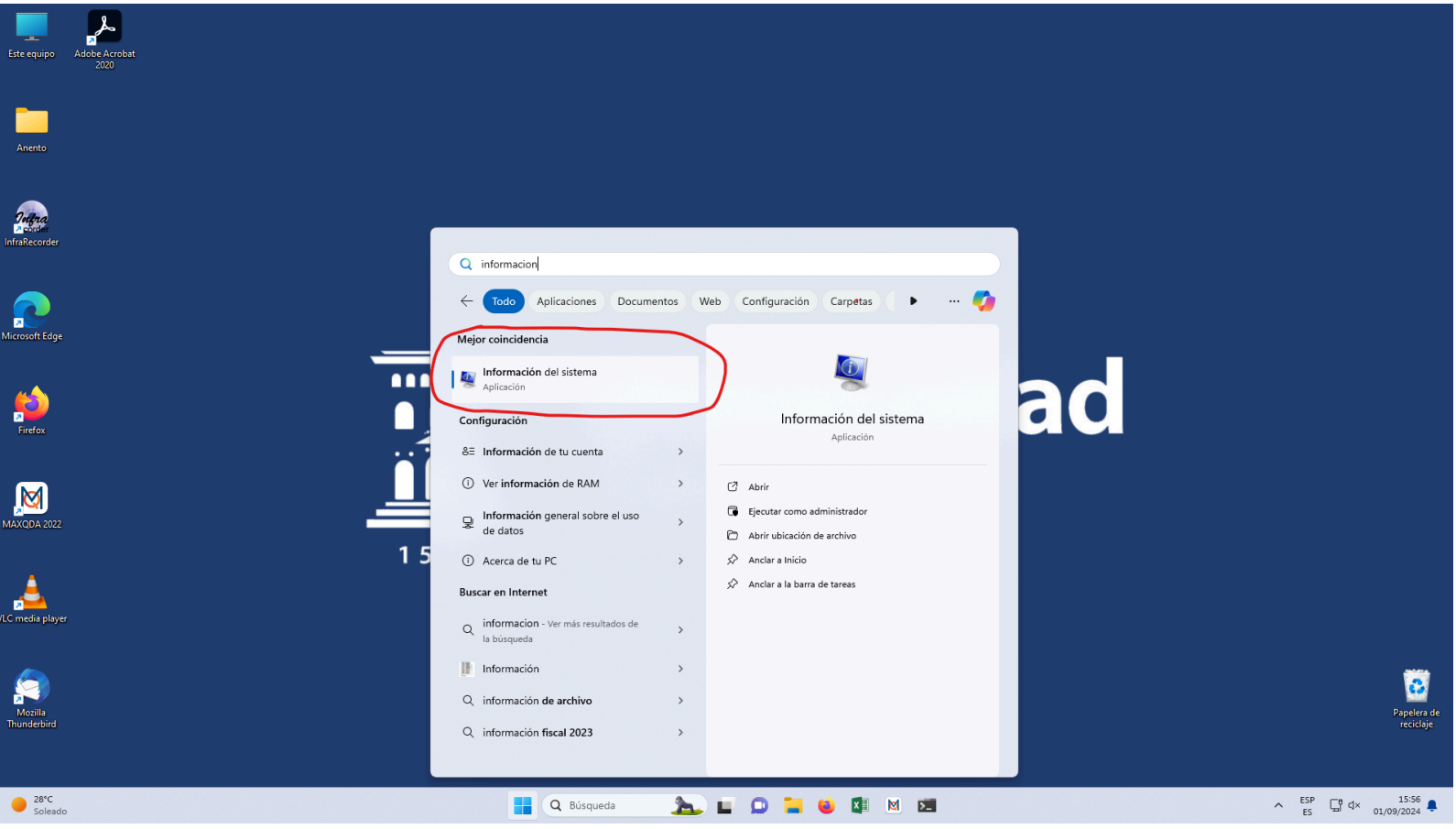
Step 1: Verify your Windows Version

To ensure you download the correct installers, we first need to verify your Windows operating system version.

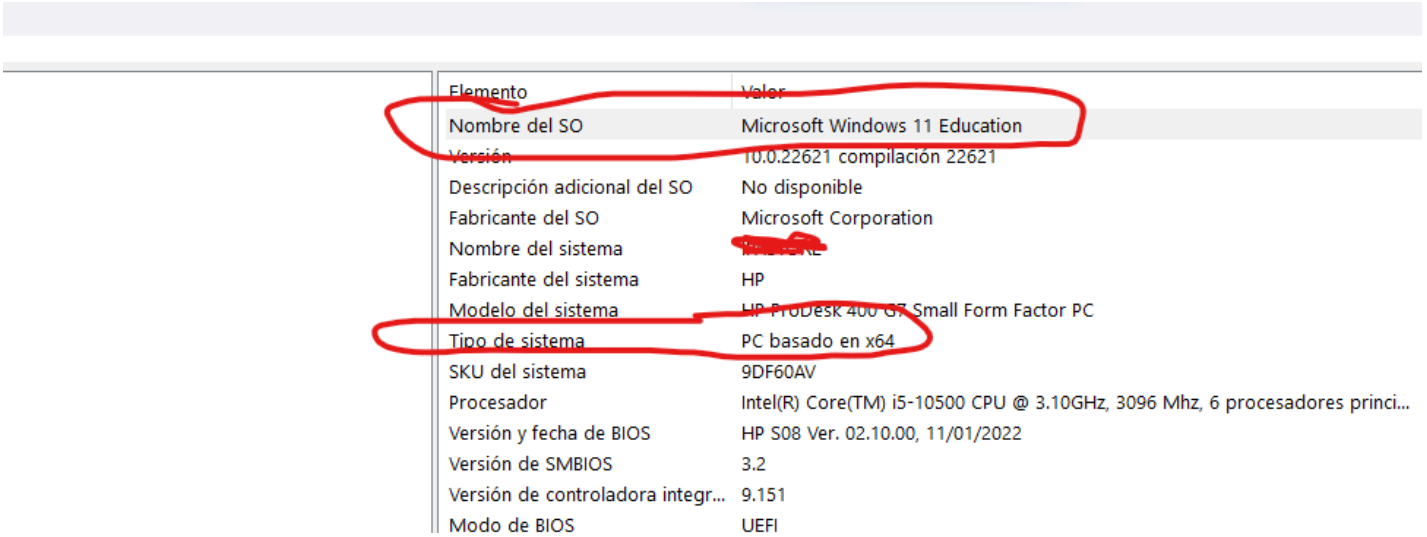
Instructions:

1. Click on the **Start** button in the bottom bar of your screen.
2. Type **“System Information”** and select the application that appears.


Este equipo
Adobe Acrobat 2020
Anento
InfraRecorder
Microsoft Edge
Firefox
MAXQDA 2022
LC media player
Mozilla Thunderbird
Universidad Zaragoza
1542
Papelera de reciclaje
Inicio
28°C Soleado
Búsqueda
ESP ES
15:54 01/09/2024


Este equipo
Adobe Acrobat 2020
Anento
InfraRecorder
Microsoft Edge
Firefox
MAXQDA 2022
LC media player
Mozilla Thunderbird
informacion
Todo
Aplicaciones
Documentos
Web
Configuración
Carpetas
Mejor coincidencia
Información del sistema
Aplicación
Configuración
Información de tu cuenta
Ver información de RAM
Información general sobre el uso de datos
Acerca de tu PC
Buscar en Internet
informacion - Ver más resultados de la búsqueda
Información
información de archivo
información fiscal 2023
Información del sistema
Aplicación
Abrir
Ejecutar como administrador
Abrir ubicación de archivo
Anclar a Inicio
Anclar a la barra de tareas
Papelera de reciclaje
28°C Soleado
Búsqueda
ESP ES
15:56 01/09/2024

3. In the **System Information** window, look for the following two lines:
    - **System Type:** Indicates whether your system is 32-bit or 64-bit.
    - **OS Name:** Shows the version of Windows you are using.



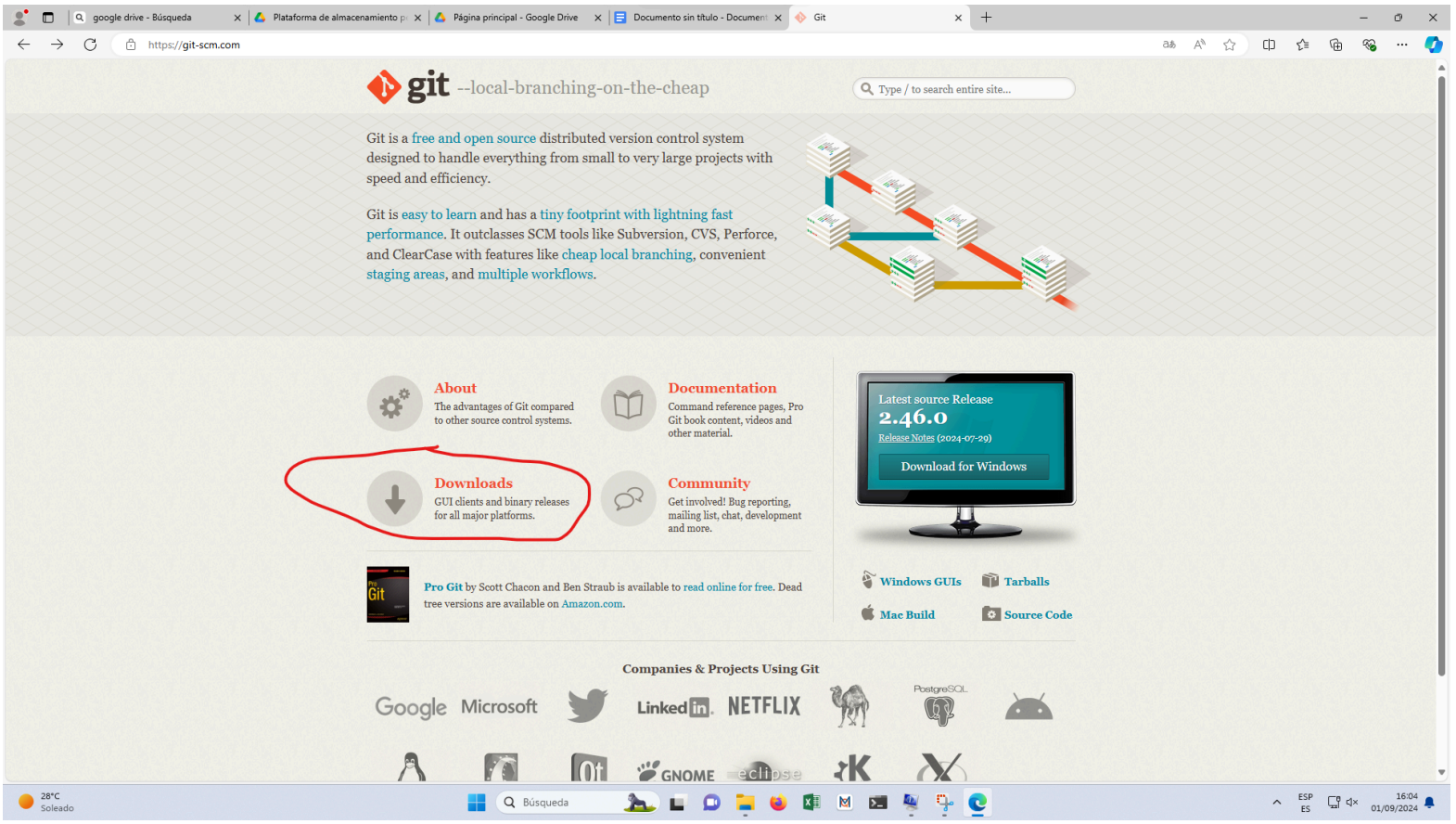
Elemento	Valor
Nombre del SO	Microsoft Windows 11 Education
Versión	10.0.22621 compilación 22621
Descripción adicional del SO	No disponible
Fabricante del SO	Microsoft Corporation
Nombre del sistema	[redacted]
Fabricante del sistema	HP
Modelo del sistema	HP ProDesk 400 G7 Small Form Factor PC
Tipo de sistema	PC basado en x64
SKU del sistema	9DF60AV
Procesador	Intel(R) Core(TM) i5-10500 CPU @ 3.10GHz, 3096 Mhz, 6 procesadores princi...
Versión y fecha de BIOS	HP S08 Ver. 02.10.00, 11/01/2022
Versión de SMBIOS	3.2
Versión de controladora integr...	9.151
Modo de BIOS	UEFI

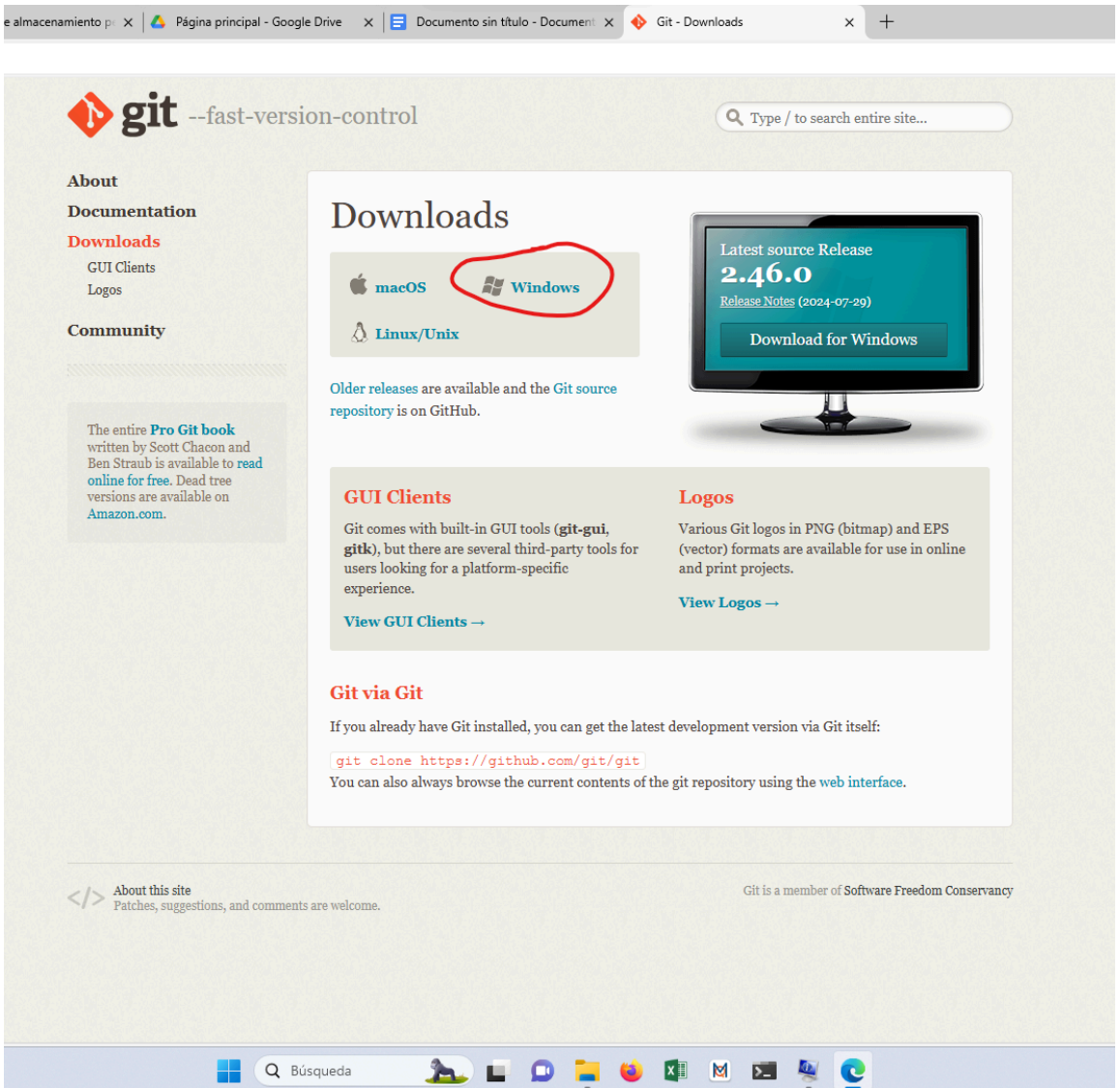
Step 2: Install Git

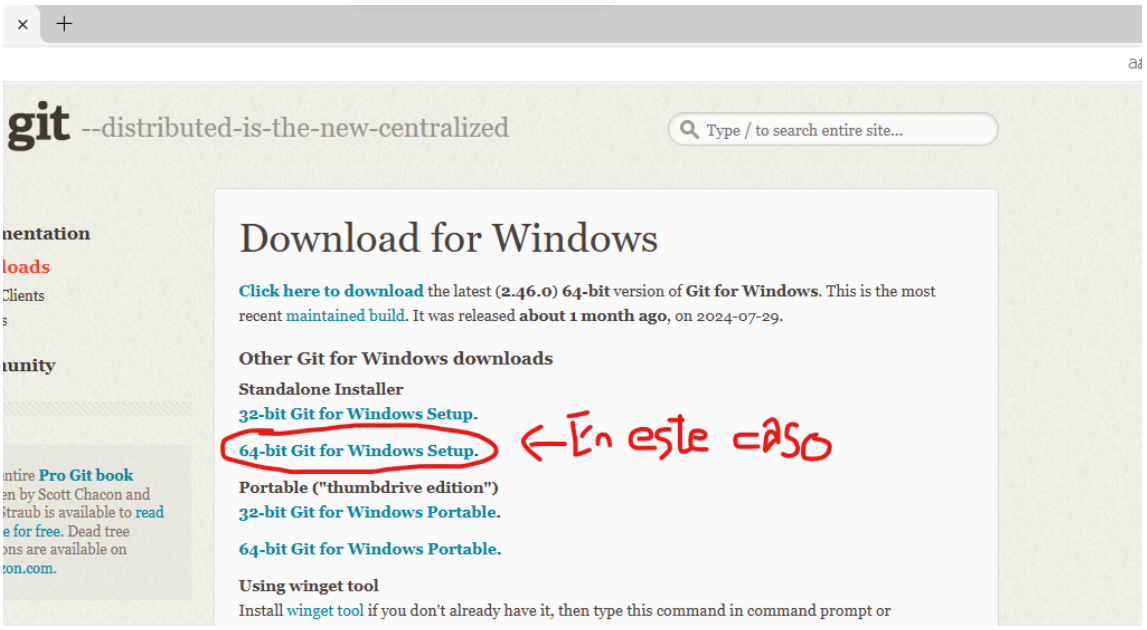
Git is a version control tool that allows you to download (clone) the web application's source code from GitHub.

Instructions:

1. Open your internet browser and go to https://git-scm.com
2. Click on the **Download** button. Make sure to select the correct version for your operating system (32-bit or 64-bit).


git --local-branching-on-the-cheap
Type / to search entire site...
Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.
Git is easy to learn and has a tiny footprint with lightning fast performance. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like cheap local branching, convenient staging areas, and multiple workflows.
About
The advantages of Git compared to other source control systems.
Documentation
Command reference pages, Pro Git book content, videos and other material.
Downloads
GUI clients and binary releases for all major platforms.
Community
Get involved! Bug reporting, mailing list, chat, development and more.
Latest source Release
2.46.0
Release Notes (2024-07-29)
Download for Windows
Pro Git by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on Amazon.com.
Windows GUIs
Tarballs
Mac Build
Source Code
Companies & Projects Using Git


Git - Downloads
git --fast-version-control
Type / to search entire site...
About
Documentation
Downloads
GUI Clients
Logos
Community
Downloads
macOS
Windows
Linux/Unix
Older releases are available and the Git source repository is on GitHub.
Latest source Release
2.46.0
Release Notes (2024-07-29)
Download for Windows
The entire Pro Git book written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on Amazon.com.
GUI Clients
Git comes with built-in GUI tools (git-gui, gitk), but there are several third-party tools for users looking for a platform-specific experience.
View GUI Clients →
Logos
Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.
View Logos →
Git via Git
If you already have Git installed, you can get the latest development version via Git itself:
git clone https://github.com/git/git
You can also always browse the current contents of the git repository using the web interface.
About this site
Patches, suggestions, and comments are welcome.
Git is a member of Software Freedom Conservancy



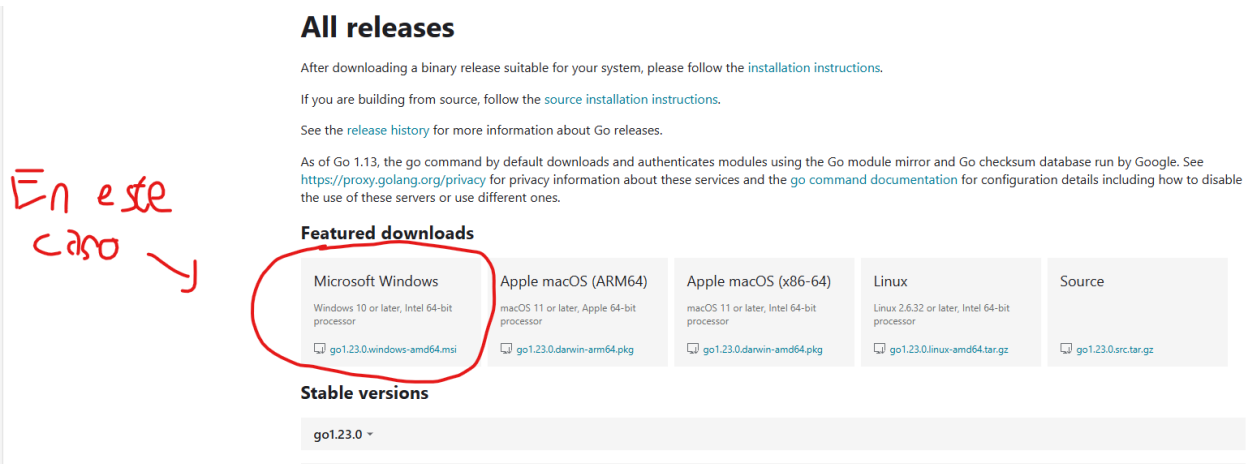
3. Once downloaded, double-click the file to open the installer.
4. Follow the installer instructions. Accept the license terms, leave the default options, and click **Next** until you see the **Install** button.
5. Click **Install** and wait for the installation to complete. A new window may open in your browser with the Git releases; you can close this without any problem.

Step 3: Install Go (Golang)

Go is the programming language used to develop the application. We need to install Go to run the web application.

Instructions:

1. Open your internet browser and go to https://go.dev/dl/
2. Select the version of Go that is compatible with your operating system.



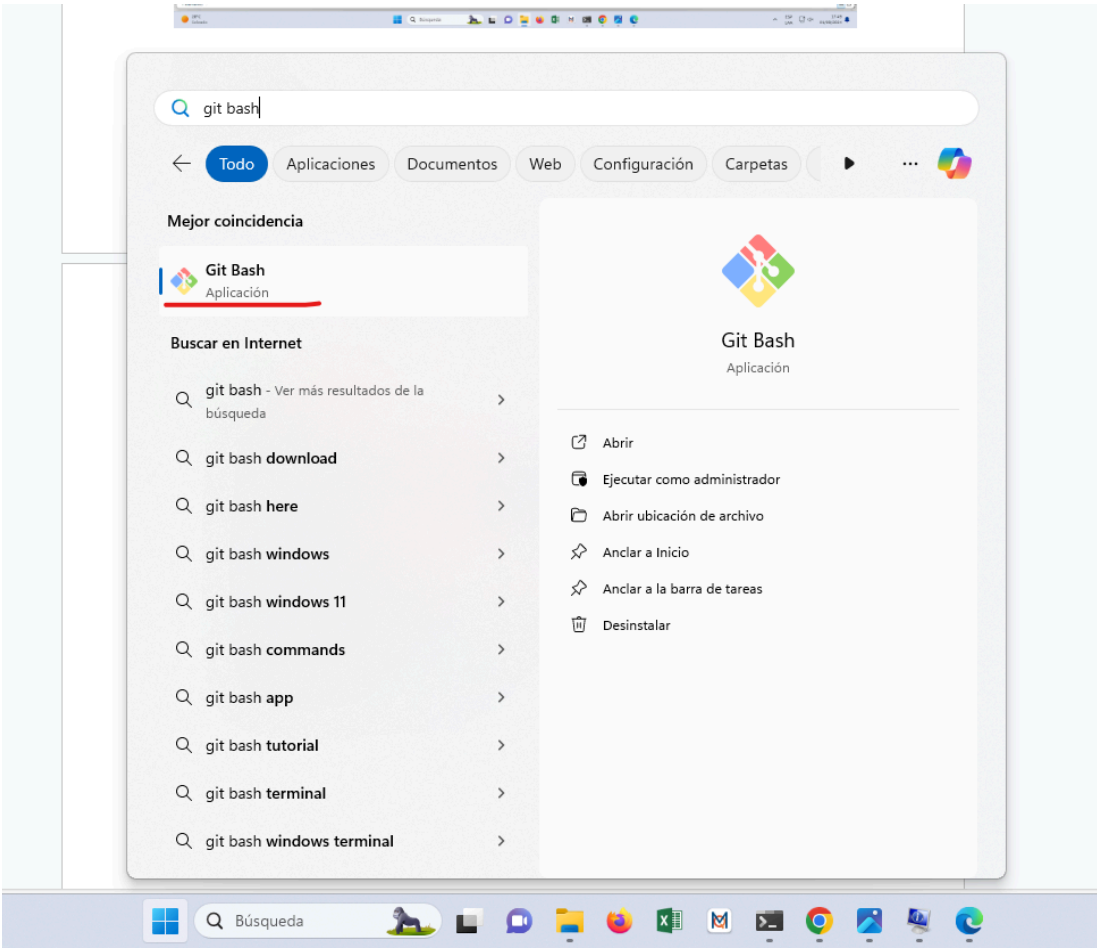
3. Click on the download link.
4. Once downloaded, double-click the file to open the installer.
5. Follow the instructions in the installer to install Go. Accept the license terms, leave the default options, and click **Next** until you see the **Install** button.
6. Click **Install** and wait for the installation to complete.

Step4: Clone Github Repository

Now we will clone the GitHub repository where the web application is located.

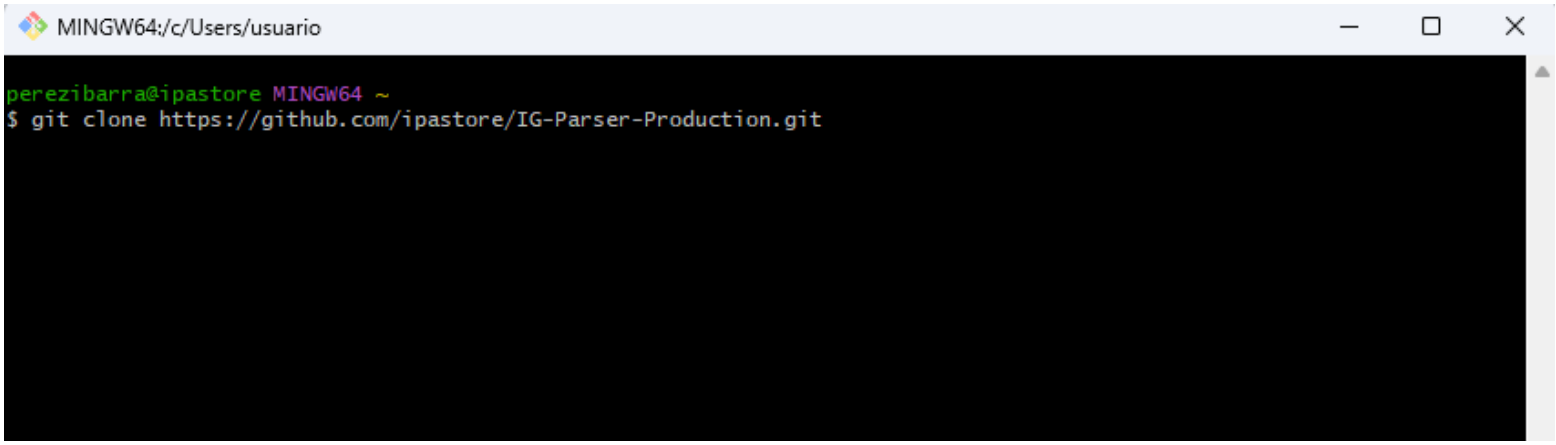
Instructions:

1. Open **Git Bash** (an application installed with Git). You can find it in the Windows Start menu by searching for "**Git Bash**."

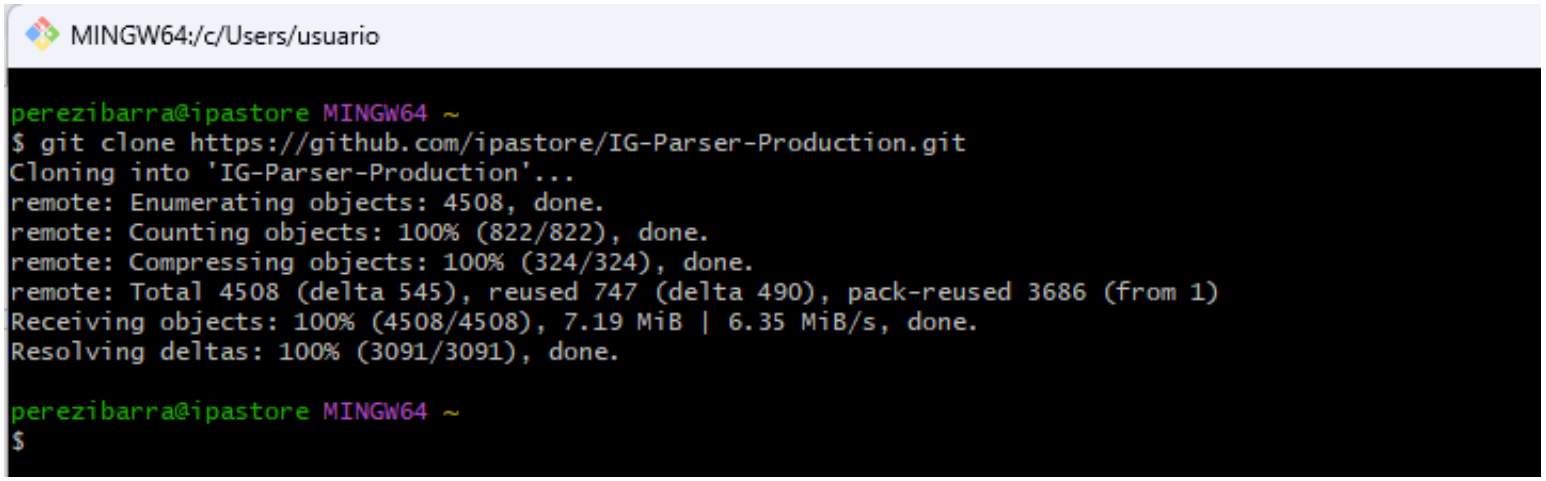


2. In the Git Bash window, type the following command and press Enter:

git clone https://github.com/ipastore/IG-Parser-Production.git



3. Wait for the cloning process to complete. This will download the application's source code to your computer.



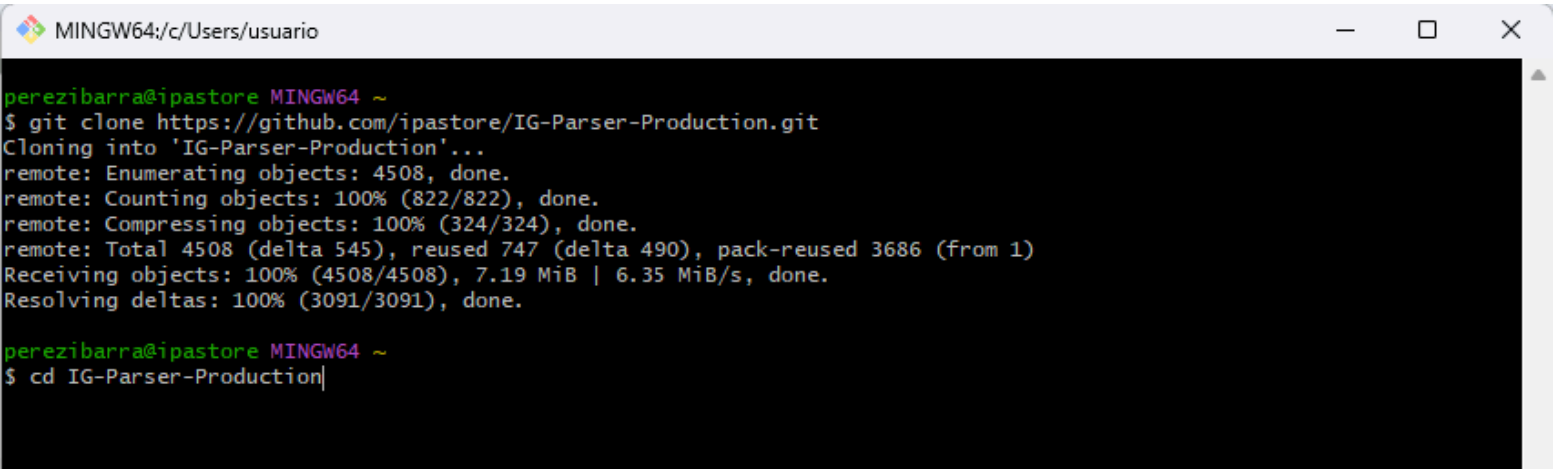
Step 5: Run the go build Command

Once the repository is cloned, we need to compile the code to create the executable file for the web application.

Instructions:

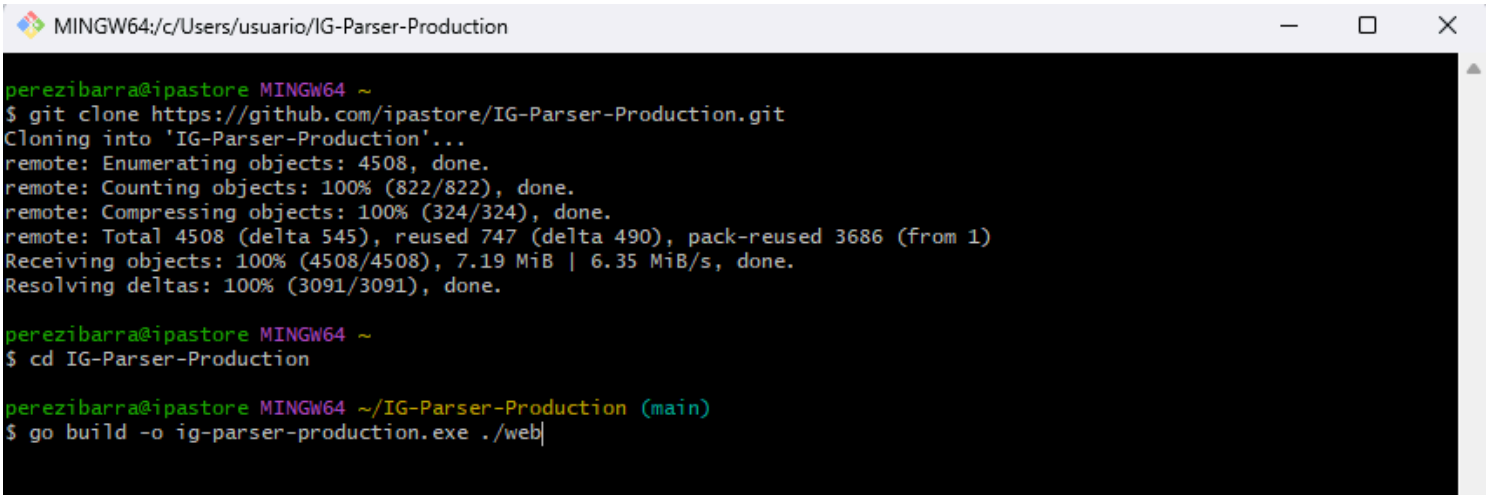
1. Open **Git Bash** again or continue in the same window.
2. Navigate to the folder where the repository was cloned. Type or copy and paste the following command and press Enter:

cd IG-Parser-Production

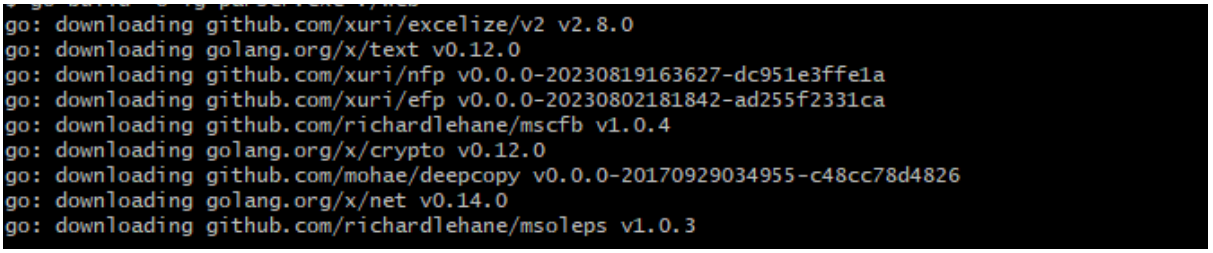


3. Type or copy and paste the following command and press Enter to compile the application:

go build -o ig-parser-production.exe ./web



4. Wait for the dependencies to download and the .exe file has now been created.

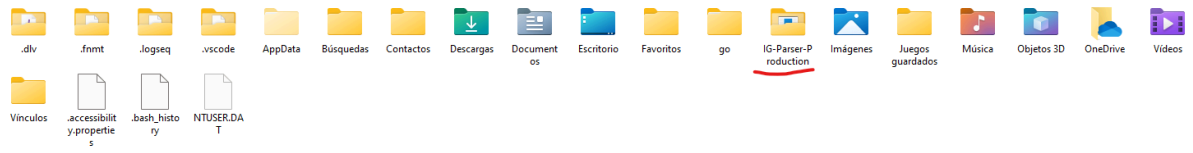


Step 6: Run the Application

After compiling the application, we can run it.

Instructions:

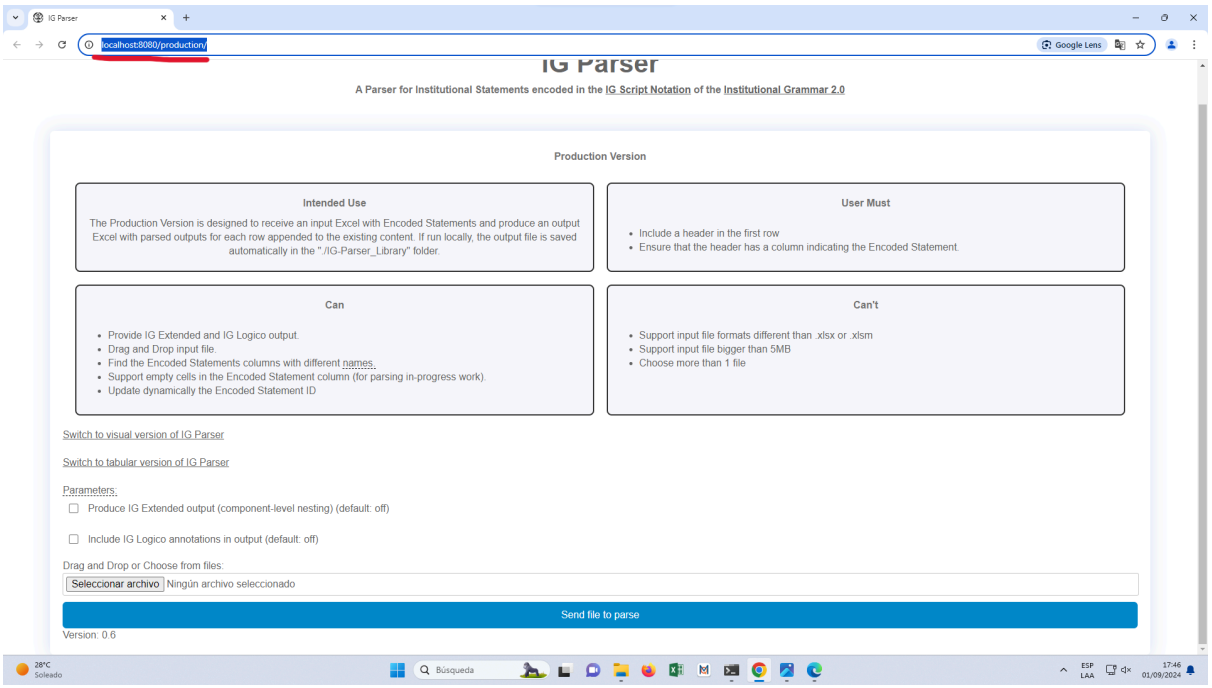
1. Navigate to the **IG-Parser-Production** folder. This can be found inside your user folder (This PC → Local Disk (C:) → Users → [your username]).



2. Find the **ig-parser-production.exe** file and double-click it.

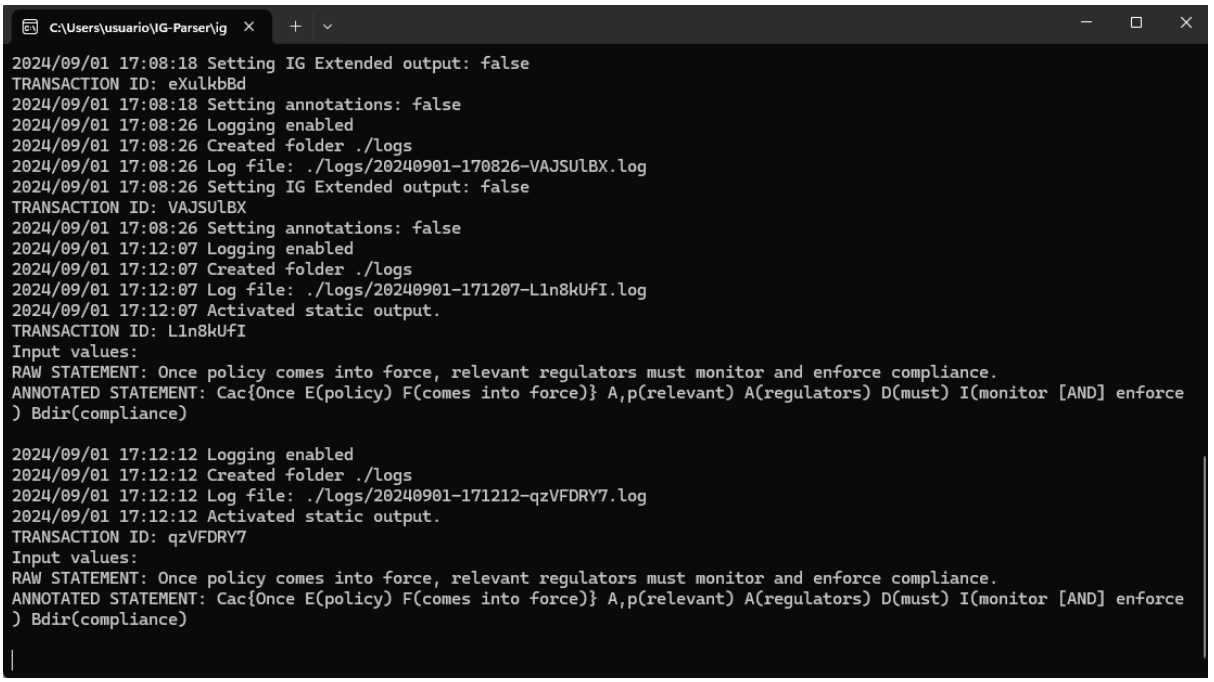
Nombre	Fecha de modificación	Tipo	Tamaño
.git	03/09/2024 12:30	Carpeta de archivos	
.idea	03/09/2024 12:24	Carpeta de archivos	
assets	03/09/2024 12:24	Carpeta de archivos	
core	03/09/2024 12:24	Carpeta de archivos	
docs	03/09/2024 12:24	Carpeta de archivos	
web	03/09/2024 12:24	Carpeta de archivos	
workbench	03/09/2024 12:24	Carpeta de archivos	
.gitattributes	03/09/2024 12:24	txtfile	1 KB
.gitignore	03/09/2024 12:24	txtfile	1 KB
changelog.md	03/09/2024 12:24	Archivo MD	2 KB
contributors.md	03/09/2024 12:24	Archivo MD	1 KB
deploy	03/09/2024 12:24	Shell Script	4 KB
docker-compose.yml	03/09/2024 12:24	Archivo YML	1 KB
Dockerfile	03/09/2024 12:24	Archivo	1 KB
go	03/09/2024 12:24	Archivo MOD	1 KB
go.sum	03/09/2024 12:24	Archivo SUM	7 KB
ig-parser-production	03/09/2024 12:30	Aplicación	17.060 KB
INSTALLATION.md	03/09/2024 12:24	Archivo MD	4 KB
LICENSE	03/09/2024 12:24	Archivo TXT	35 KB
README.md	03/09/2024 12:24	Archivo MD	4 KB
USAGE.md	03/09/2024 12:24	Archivo MD	3 KB

3. The application will automatically start in a new window of your default browser at the URL: http://localhost:8080/production/.



A new terminal window will also open, which you don't need to use or understand. The terminal contains the engine, and the browser window is the user interface.

NOTE: Please note that if you close this window, you will close the engine and you will not be able to use the
browser view. If you want to reopen it, go back to point 2 (double click on ig-parser-production.exe)



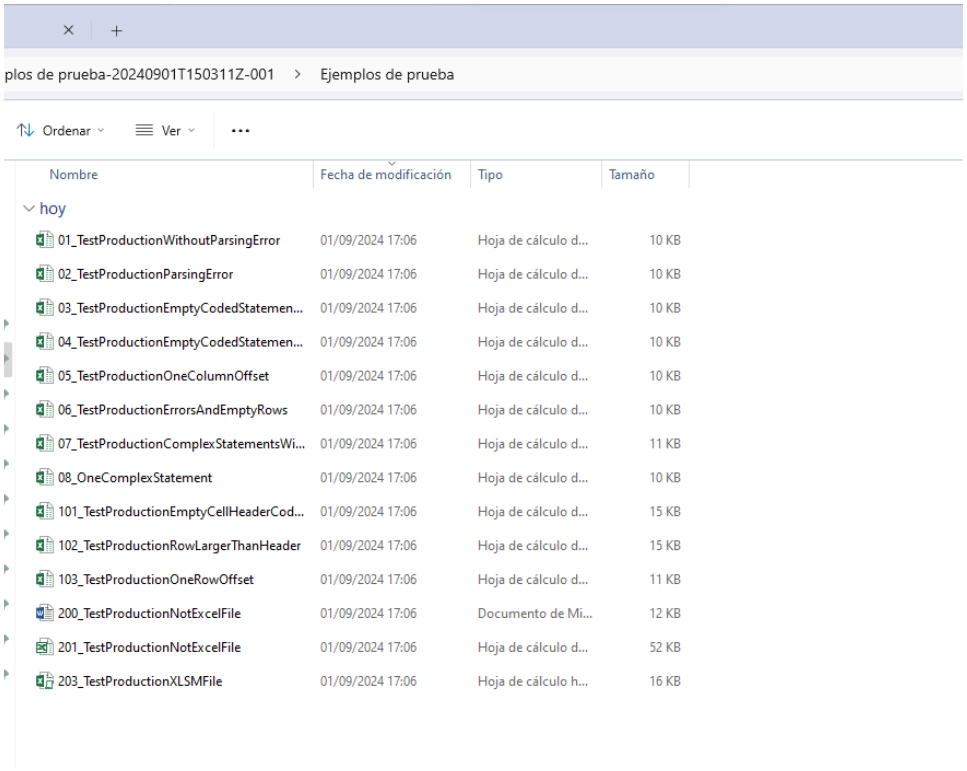
Step 7:Check for Proper Functioning

The application is now ready to use. We will now choose one of the example files available on the Drive to test its proper functioning.

Instructions:

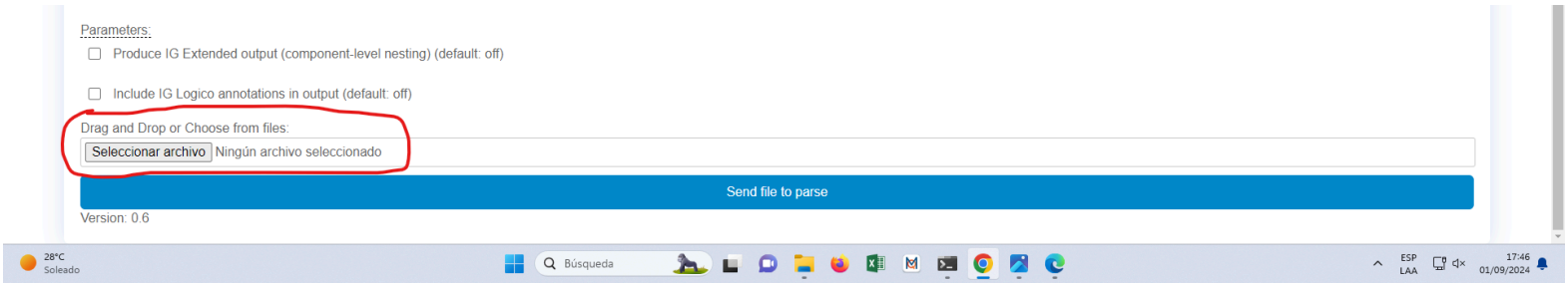
1. Go to the **IG-Parser-Production** folder on your computer (This PC → Local Disk (C:) → Users → [your username] → IG-Parser-Production) and find the folder named **“excel-examples-for-production.”**

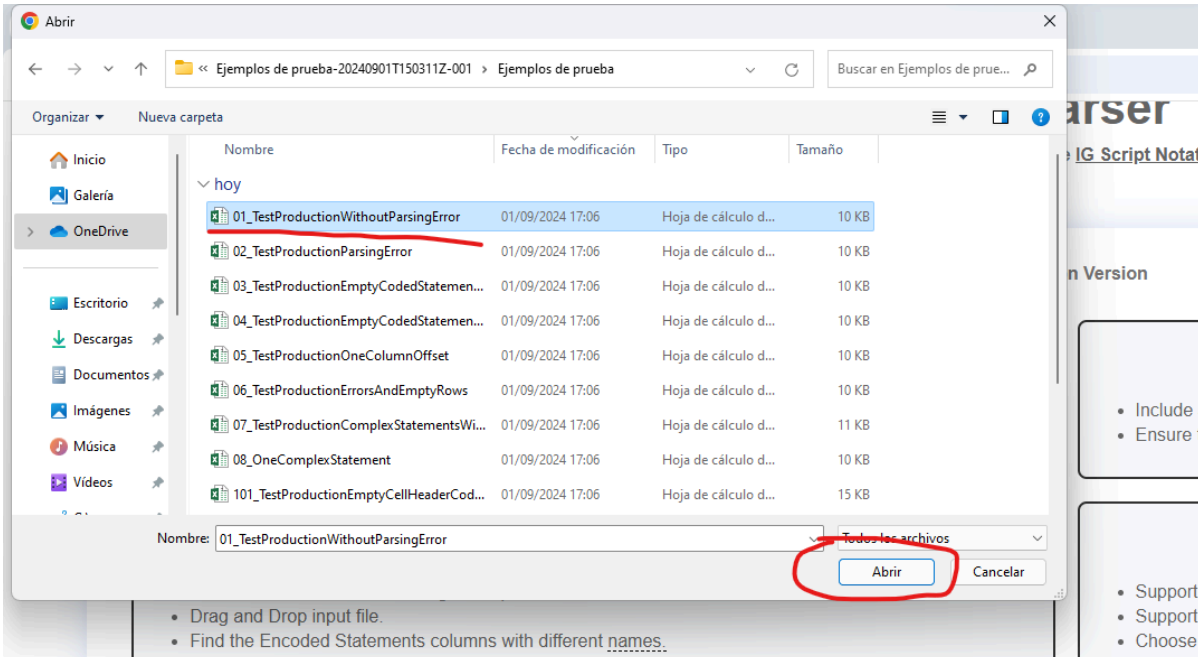
2. A new folder will open containing files with different characteristics. The file names are self-explanatory. For example, **“102_TestProductionRowLargerThanHeader.xlsx”** contains an Excel file with a row longer than the header, which returns an error in the program.



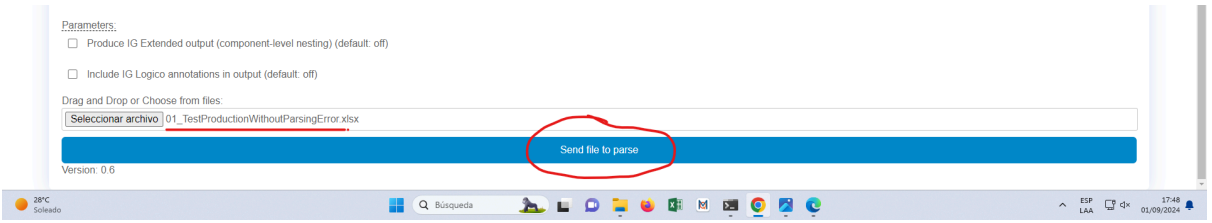
3. Use an easy example to start: **“01_TestProductionWithoutParsingError.xlsx.”** This file does not contain any errors and will produce a successfully processed file.

4. You can select the file using the **“Select file”** button or drag and drop the file directly to the **“No file chosen”** area (this last function does not work in Microsoft Edge; it has only been tested in Google Chrome).





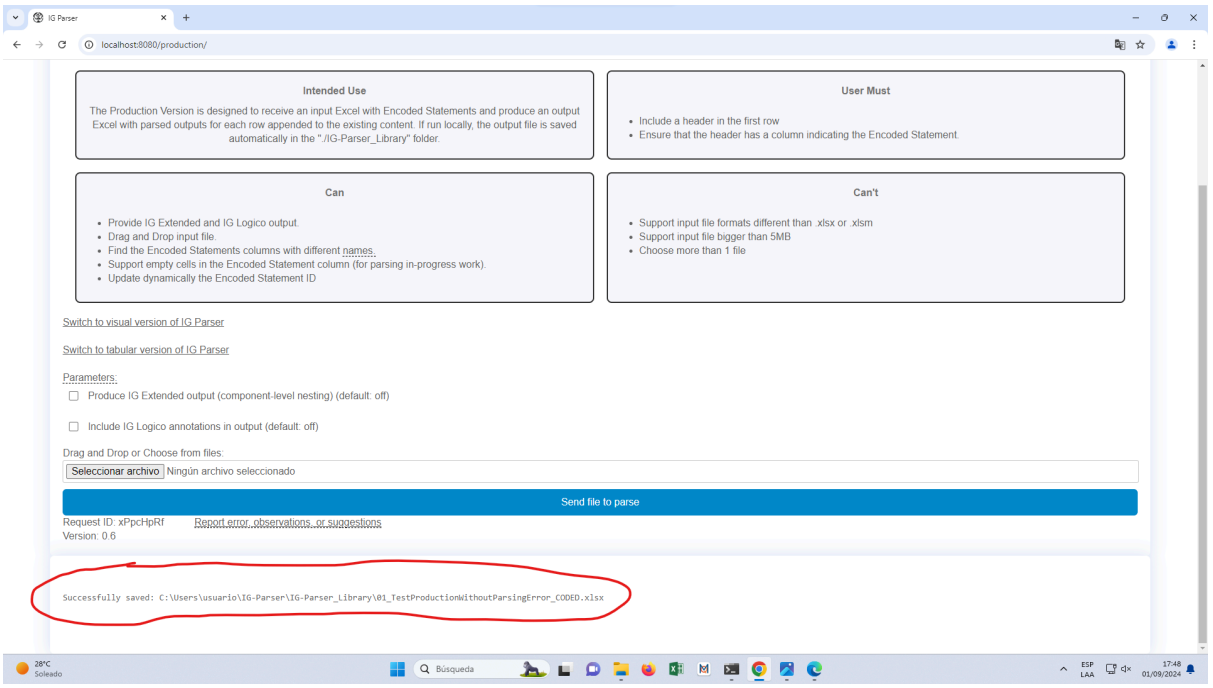
5. If the file name appears in gray, it means you have selected it correctly. Click **“Send file to parse.”**



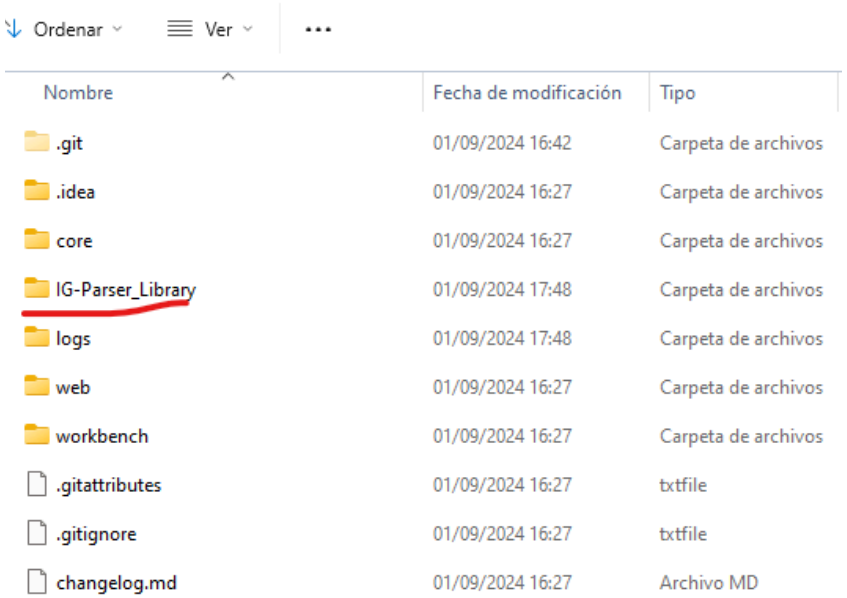
6. If there is any error, a red message will appear. Otherwise, a message will appear:

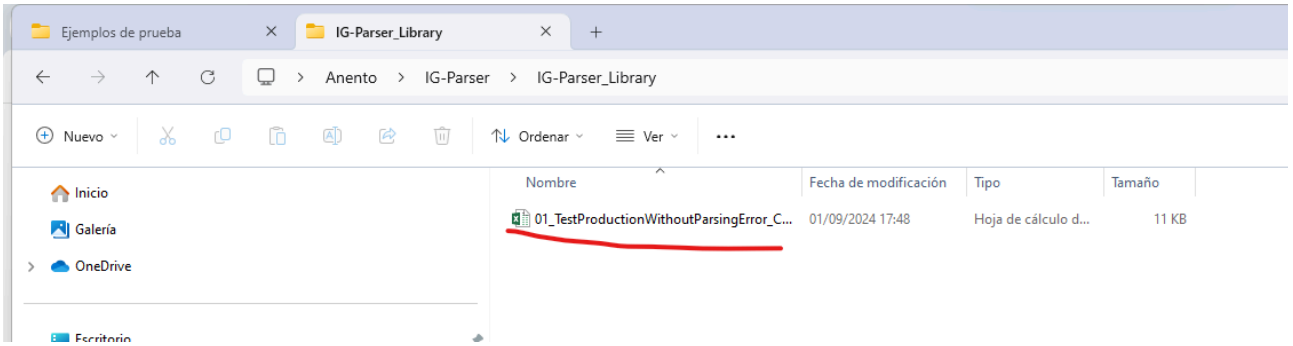
“Succesfully saved in “_____”

(This is the location of the processed file).



7. By default, the program saves processed files in a folder called **“IG-Parser_Library”** inside the “IG-Parser-Production” folder. The output file name is the original name followed by **“_CODED.”** For example, **“01_TestProductionWithoutParsingError_CODED.”**





8. Conclusion

Congratulations, you have successfully installed and run IG-Parser-Production (IG-Parser v0.6). You can continue testing the example files to see potential errors and the application's capabilities. You can also try the **"IG-Extended"** and **"IG-Logico"** options and note the differences in encoding.

On the other hand, the Tabular and Visual Output functions are functional and can be used to code each statement.

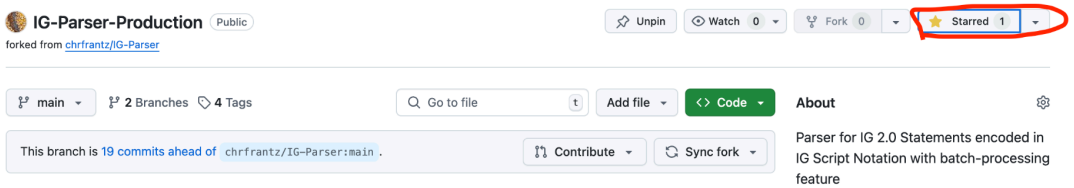
Future Functionalities:

- **Automatic Statement ID Generation Chosen by User:** Choose Excel columns to generate a Statement ID automatically (e.g., select "Document Name," "Code," "Principle," and "End" to produce an ID: "199_CHO_5_5").
- **Symbol Display in Headers:** Option to display full names or symbols in headers (e.g., "Direct Object" or "Bdir").
- **Enhanced Sheet Coding:** Expand the code to encode all Sheets containing an Encoded Statement column, potentially through the UI with user-provided information.

- En esta versión aparecen los nombres completos de los elementos del IG, como por ejemplo: "Direct Object". Se puede incluir una opción para que aparezcan los símbolos en el header (Bdir en este caso).
- Ampliación del código para codificar todas las Sheets que contengan una columna Encoded Statement. Esto también podría hacerse a través de la UI con información proporcionada por el usuario.

9. Update or Uninstall

If you want to stay updated on new modifications, you can click on the "Star" button on the GitHub repository. You will receive emails with updates on the source code.



If you are interested in updating the code on your local machine, you can first uninstall and then reinstall.

Instructions:

1. Simply delete the "IG-Parser-Production" folder (This PC → Local Disk (C:) → Users → [your_username] → IG-Parser-Production).

2. Then reapply Step 4 and Step 5 (Clone Repository and Run Go Build Command).

NOTE 1: Please note that if you delete the “IG-Parser-Production” folder, you will also delete the files already processed in “IG-Parser_Library.”

NOTE 2: If you only want to uninstall, simply follow Instruction 1 (Delete folder).