

## User Manual GenGee Robot



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## 1. Project Description

GenGee is a Chinese website which is used to store spreadsheets that contain information about teams and matches for football, basketball among other sports. People who might need to work with data would have a hard time if they needed to download the spreadsheets full of data manually each time they needed to analyse or do something with the data. Therefore, our job as a team was to make this process automatic and as user-friendly as possible. We created for this purpose a website which eases the spreadsheet-fetching process using automated robot scripts and timers for more flexibility. The website with all its bells and whistles will be discussed further in the user/installation manual.

The project was created using Python to create the back-end logic and components that do most of the work. HTML, CSS, and JavaScript languages were also used here and there to boost interactivity and improve the website's looks and feels.

## 2. Installation Manual

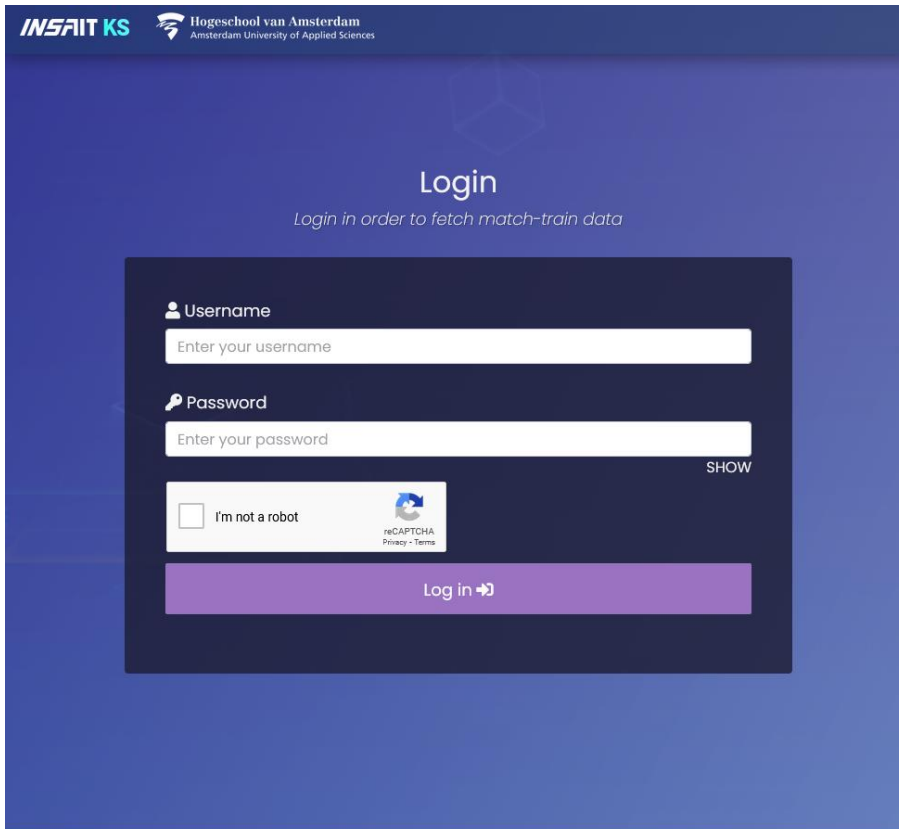
To make the installation as easy as possible, an executable file “.exe” installer has been created which will install all needed files and directories on the user’s machine. However, the software requires few dependencies to be installed in order to for it function properly and as intended. Below are all steps needed to install the software and allow it to function as intended:

1. Run the given exe installer. Install the software in the desired directory.
2. If not installed, download [Python Ver. 3.9](#) or higher.
3. Run the **get\_dependencies.py** file before running the software to install all needed libraries. **get\_dependencies.py** file can be found in the installation directory.
4. If not installed, download latest version [Google Chrome](#).
5. If not installed, download latest version [Mozilla Firefox](#).
6. If not installed, download latest version [Microsoft Edge](#).
7. Run the file **app.py**.
8. Ready to go.

After finishing all these simple steps, the website will be online and is accessible on the localhost which can be accessed using the link: [127.0.0.1](#)

## 3. User Manual

### 3.1 Login Page



The screenshot shows the login page for INSAIT KS at Hogeschool van Amsterdam. The page has a dark blue background with a large 'Login' title and a subtitle 'Login in order to fetch match-train data'. The login form is centered and contains the following elements:

- Username:** A text input field with the placeholder 'Enter your username'.
- Password:** A text input field with the placeholder 'Enter your password' and a 'SHOW' link to toggle password visibility.
- reCAPTCHA:** A checkbox labeled 'I'm not a robot' and a reCAPTCHA image.
- Log in:** A purple button with a right arrow icon.

The login page can be accessed on two different routes which are:

1. [127.0.0.1](http://127.0.0.1)
2. [127.0.0.1/login](http://127.0.0.1/login)

The interface is good-looking using GenGee's colour palette and background image. It's simple to use and understand with only two conventional fields which are the username and password of the user's account at GenGee.

After/before inserting the needed

credentials, the user must also check the "I'm not a robot" box which is supplied by Google's reCAPTCHA v2 technology.

After inserting the correct credentials and checking the reCAPTCHA box, the user is taken to the home page with a success message. If the user inserts an invalid username or password, he'll be presented with an error message which will specify which part is incorrect.

### 3.2 Home Page

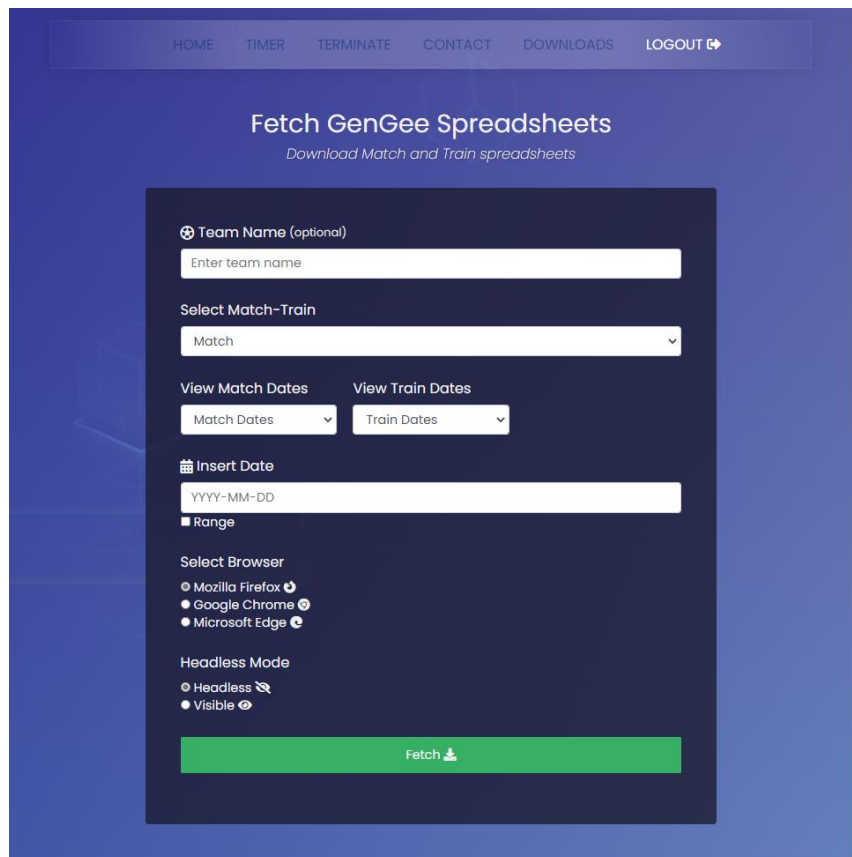
If the log in process was successful, the user is taken to the home page where the spreadsheet-fetching process is done. This page is also very straightforward. The user can specify a team name to install their data. The team name can be left blank and the robot will fetch all data based on the other filters.

The user can also select to install Match or Train data. The user is also able to select a specific date to download the spreadsheets for that date, a date range can also be used to download spreadsheets between two dates. To use the range functionality, the

“Range” checkbox must be checked which will present the user with a second date input field.

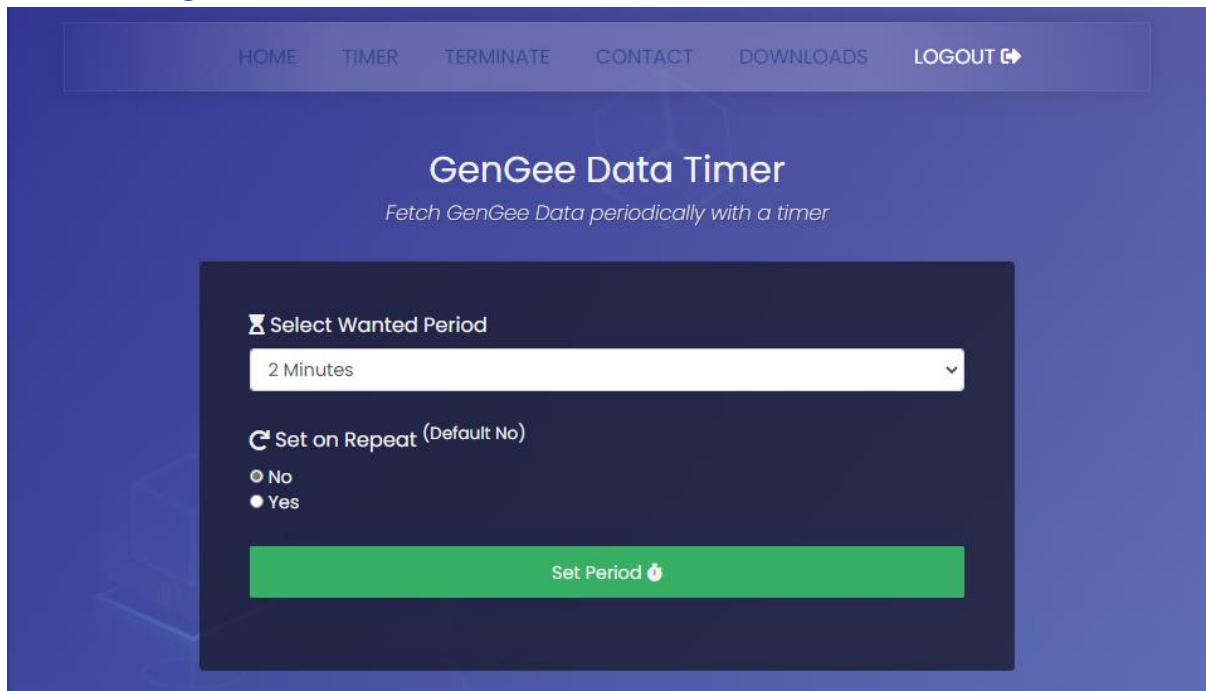
The user is also able to select the preferred browser to use to download the spreadsheets. (Tip. Microsoft Edge and Google Chrome offer a much faster download experience than their Mozilla Firefox counterpart).

Finally, the user can decide whether or not they want to see the browser launch each time the script runs. If “Headless” is chosen, the browser will run just as normal and fetch all data just as normal, but all of these actions will be carried out in the background without the browser actually opening up. If on the other, the user does want to see the spreadsheet-fetching process, the user can choose the “Visible” option to see the browser launch.



The screenshot shows the 'Fetch GenGee Spreadsheets' web application. At the top, there is a navigation bar with links: HOME, TIMER, TERMINATE, CONTACT, DOWNLOADS, and LOGOUT. The main heading is 'Fetch GenGee Spreadsheets' with a subtitle 'Download Match and Train spreadsheets'. The form includes several sections: 'Team Name (optional)' with a text input field; 'Select Match-Train' with a dropdown menu currently set to 'Match'; 'View Match Dates' and 'View Train Dates' with dropdown menus set to 'Match Dates' and 'Train Dates' respectively; 'Insert Date' with a text input field showing 'YYYY-MM-DD' and a 'Range' checkbox; 'Select Browser' with radio buttons for 'Mozilla Firefox', 'Google Chrome', and 'Microsoft Edge'; and 'Headless Mode' with radio buttons for 'Headless' and 'Visible'. A large green 'Fetch' button is at the bottom.

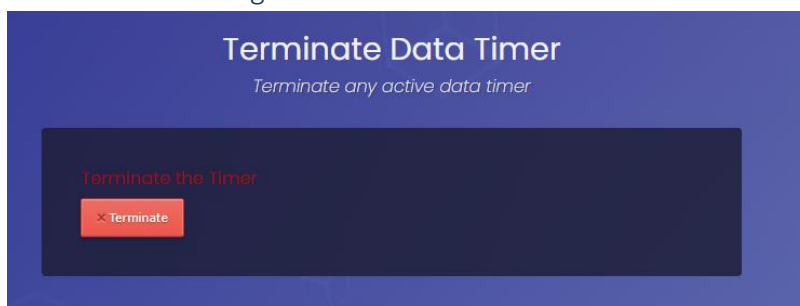
### 3.3 Timer Page



An important point in this project is to advertise automation and allow the user to automate the spreadsheet-fetching process. This can be done in this page. A user can select a time period after which the software will automatically fetch the spreadsheets from the GenGee website. The user can also choose whether or not they want the timer to reset after finishing of fetch the data only once.

If the user chooses “No” then the software will set the wanted timer (2 hours for example). After 2 hours, the software will run automatically without any need for human intervention and download the wanted spreadsheets. On the other hand, if “Yes” is chosen, the software will set the timer just as normal but after 2 hours pass and the software fetches the data, the timer will reset and redownload the spreadsheets again.

#### 3.3.1 Terminate Page



After a timer is set, the software will start a countdown to fetch the data. However, user can make mistakes regarding duration or simply change their minds about duration.

For this purpose, the Terminate page was created. After a timer has been set, the user can access this page and simply click on the red “Terminate” button. Once clicked, the set timer will be killed.

### 3.4 Contact Page

This page is a simple contact form which allows users that may encounter errors or simply want to inquire about something in the website to submit their inquiries and thoughts directly to the admins. Each e-mail is created with a reference code which makes finding the right e-mail or question very fast.

## Contact Us


*For questions and reporting errors, please use the contact form below*

Name

\* E-mail

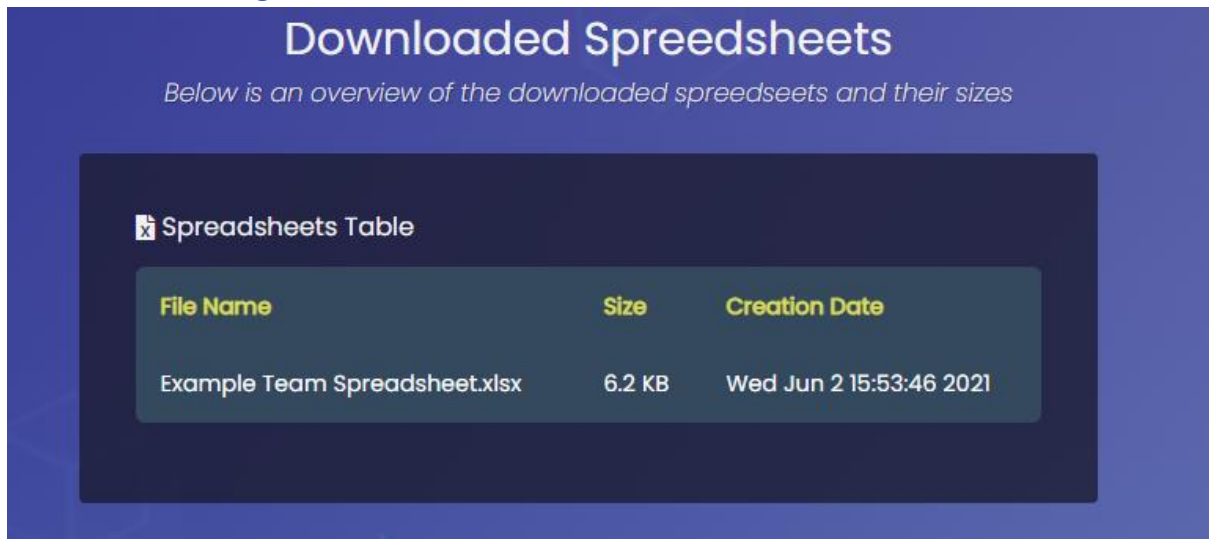
\* Subject

\* Body

Send 



### 3.5 Downloads Page



The screenshot shows a web interface with a dark blue background. At the top, the title 'Downloaded Spreadsheets' is displayed in white. Below it, a subtitle reads 'Below is an overview of the downloaded spreadsheetseets and their sizes'. A dark grey box contains the heading 'x Spreadsheets Table' with a small icon. Inside this box is a table with three columns: 'File Name', 'Size', and 'Creation Date'. The table contains one row of data.

File Name	Size	Creation Date
Example Team Spreadsheet.xlsx	6.2 KB	Wed Jun 2 15:53:46 2021

This downloads page offers a simple and easy table overview of all installed spreadsheets. Handy information is also mentioned next to the file's name such as its size and creation date (Download date basically).