**House Host Tracking Advertiser**

Graphical user interface, application

Description automatically generatedTable

Description automatically generated

# Description

This was a Java application designed for RuneScape and Old School RuneScape. I took on the challenge of developing new features whilst troubleshooting and resolving any issues that arose on a sophisticated auto typing application used by selected users. The foundation was coded in Java by the original author (Mr. Dakota N.), and with his approval, I devoted many hours improving on the codebase using Eclipse integrated development environment (IDE). I am still in touch with the original author on Discord. He has granted me full control of this application. Our personal details (full name and email address) are found in my private repository for this application.

This application grabbed gilded altar host data in the form of JavaScript Object Notation (JSON) from multiple webpages every 30 seconds, formatted it into a table, to then output it in-game. The world and location could be selected in a dropdown menu by the user to advertise correct Gilded altar hosts. The webpages were populated from a Discord bot that allowed users to type in a command when they were hosting. For example, a user could type *!Host W330 Rimmington OSRS*, and the Discord bot would automatically store that information and update the JSON file, located on the Altar.rs webserver.

To further elaborate, upon starting the auto typing application, a .txt configuration file would automatically generate on the user’s desktop if it did not already exist. This file allowed users to customise everything i.e., the messages, colours and/or effects, stop timer, message typing speed, message delay and more! After the introduction of many new features and preventative solutions, they could customise everything while the application was running real-time. Any time a user encountered issues or errors while using the application, an error file would automatically generate on the user’s desktop, which they could send to me via Discord. Alternatively, they could send me any feedback via Discord.

# Initial Start-up

1. User started up the application.
2. The application then checked for a .txt configuration file on the desktop. It supported both MacOS and Windows platforms.
3. If the configuration file was not located on the desktop or if it was corrupt, it automatically created a new one.
4. If the configuration file was located on the desktop, the program read the settings inside the file and updated accordingly.

# Functionality

This application grabbed website data in the form of JavaScript Object Notation (JSON) from specific URLs, and did the following:

* If a player’s RuneScape display name was on the blacklist, they could not be outputted/advertised.
* Read all the names, locations, and worlds. It then formatted that data into a table. This is shown on the program’s main interface.
* Read and applied any new changes from the configuration file and/or graphical user interfaces and updated the configuration file accordingly.
* Every 30 seconds by default, the program updated the host table automatically by looking up the URLs and grabbing the webpage data.

In addition to that, there were many customizable options to choose from before starting the advertising process:

* **Pin To Top:** Program window appears on top of every other window.
* **Only Verified Hosts:** Only advertises people that have verified themselves on our Discord server. This process involves a bot visiting their RuneScape high scores URL and checking if they have a high enough Construction level for a Gilded altar.
* **Advertise Tracker Hosts:** Whether to advertise the people that are hosting.
* **Advertise Community Lines:** Whether to advertise the community lines listed in the configuration file or on the Advertisers interface.
* **Advertise Bone Job Lines:** Whether to advertise the bone job lines (decommissioned discord community) listed in the configuration file or on the Advertisers interface.
* **Colours and Effects:** Choice of what colours and effects to use while it is advertising.
* **Configs:** Settings you can customise to adjust the typing speed, the delay between each line, the time to stop advertising, and how many lines you wish to advertise hosts before typing a community or bone job line.
* **Advertisements:** Allows you to edit any line that gets advertised i.e., lines that are advertised when there is no host, community lines, and bone job lines.

**Screenshots**

**Graphical user interface, text, application, email

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