

Automation Program Mockup

Rough Program Outline 0.1

Sakari Woods – Artificial Intelligence Association

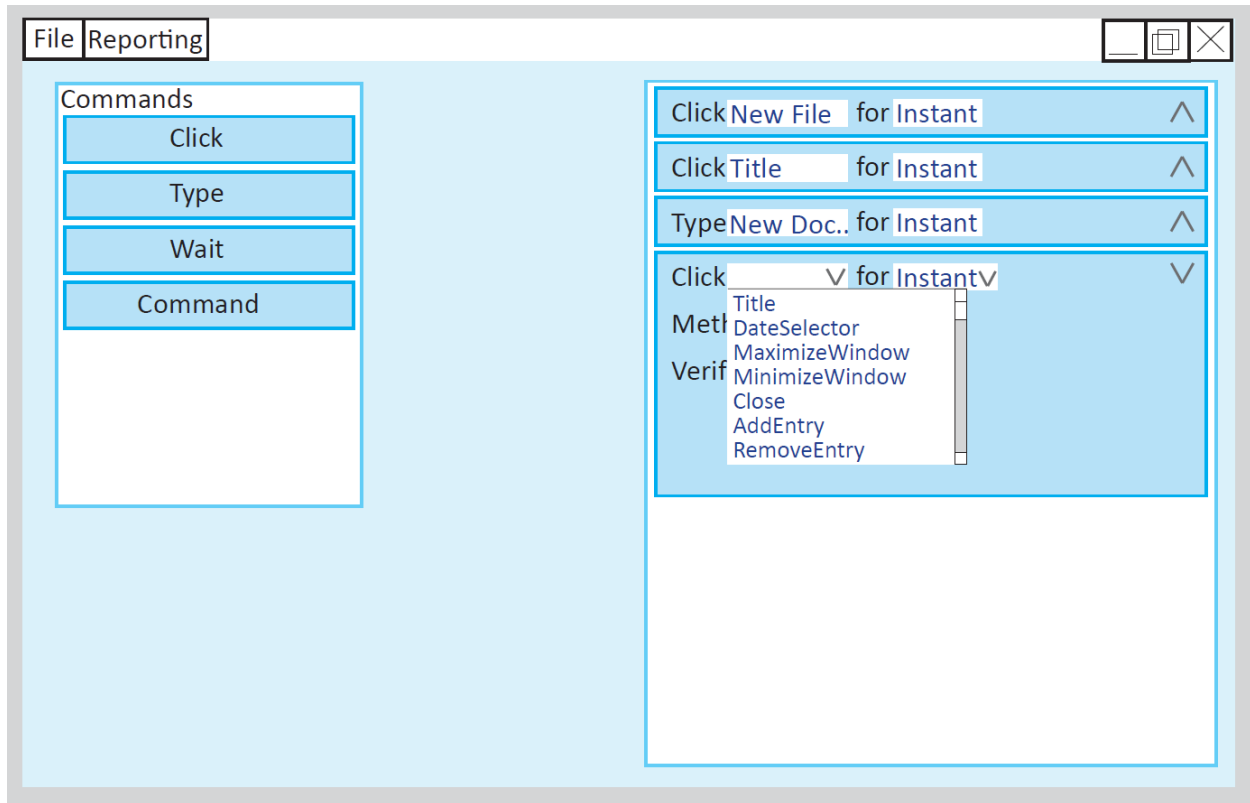
Currently in development (10/02/2018)

This tool is designed to allow the user to drag and drop common automation commands to a timeline, allowing users who have no automation or programming experience to become more efficient in their workflow. Each command that can be utilized contains built-in reporting and verification on whether or not the command successfully took place, as well as customizable options to fit the automation task in need (an example of this would be the Click command, allowing left clicking, right clicking, delays of holding, etc).

Features:

- **Rapidly collects AutomationIDs for any running process or program**(If it can show up in the task manager, it can be automated).
 - Option to grab additional controls if AutomationIDs are missing, useful for verbose system/program testing.
- **Built-in reporting and validation for each command.**
- **Drag-and-drop interface which provides accessibility to all users.**
- **No dependencies**(all files are built-in).
- **Permutation handling**(more on this below).
- **Import/Export of automation scripts.**
- **Launch automation scripts by double-clicking, application not required to be open.**
- **And additional features.**

Developed in C#, the application hooks into currently running processes and scrapes through their hierarchy using Windows built-in TreeWalker, collection any AutomationIDs that exist. Once collected, those are then displayed via drop-downs of selectable objects that the Drag-and-drop commands can then utilize. While the mock-up below is very rough, it serves it's purpose to display the general structure and purpose of the program (there will be extensive UI design changes for both visual appeal and functionality integration), and how a user might organize an automation script to create a new file and name it "New Document".



The user interface is crude and serves only as a placeholder.

This program is being developed as an Artificial Intelligence Association club project, and as such will hold a [GNU License](#) and be provided free of charge, with all code being open source. Because of the flexibility of AutomationIDs and the low footprint of requirements this program needs, this can be used to automate any program so long as it be both be detected in the Windows Task manager, and have valid AutomationIDs(unless verbose automating has been enabled).