optimacro

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optimacro

Aplikacja do automatyzacji zadań i tworzenia makr na Linuksie (X11)

CELE: • Możliwość tworzenia skryptów oraz skrótów klawiszowych do automatyzacji zdarzeń w LINUKSIE • Ma na celu optymalizacje zdarzeń w linuxie / automatyzacje

Przykłady: • Przykłady np. ruszanie myszka żeby cie nie wylogowało • Zautomatyzowane wykonywanie powtarzalnych/żmudnych zadań • Planowanie wykonania zadań

Aplikacja: • UI do zarzadzania tym • Tworzeni kodu z bloków sracz tak żeby • Apliakcja na smarftona by odpalać skrypty przez telefon

Technologie: • Elektron (klient) • C++/Go/Python (serwer) • Serwer – klient

Skrypt który pobiera pogodę i daje tapetę np.

Możliwość Wysokopoziomowych i niskopoziomowych backend

2 optimacro

Hierarchical Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Controller	9
EventController	12
LuaMacroHandler	19
UT Window	20

4 Hierarchical Index

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Controller														
Base class for controllers														9
EventController														
Class for handling X11 events														12
LuaMacroHandler														
Class for handling lua macros														19
UT Window					 									20

6 Class Index

File Index

4.1 File List

Here is a list of all documented files with brief descriptions:

src/Controller.hpp	. 21
src/EventController.hpp	. 21
src/LuaMacroHandler.hpp	. 22

8 File Index

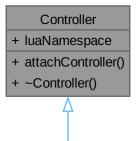
Class Documentation

5.1 Controller Class Reference

Base class for controllers.

#include <Controller.hpp>

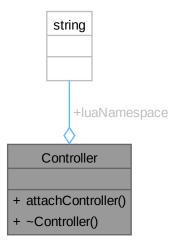
Inheritance diagram for Controller:



EventController

- + luaNamespace
- + EventController()
- + attachController()
- + setGlobalDelay()
- + searchWindowByName()
- + activateWindow()
- + moveMouse()
- + moveMouseRelative()
- + moveMouseRelativeToWindow()
- + mouseUp()
- + mouseDown()
- + getMouseLocation()
- + mouseClick()
- + mouseClickWindow()
- + getWindowUnderMouse()
- + enterText()
- + enterTextAdvanced()
- + keySequence()

Collaboration diagram for Controller:



Public Member Functions

virtual void attachController (sol::state &lua)

Public Attributes

std::string luaNamespace

5.1.1 Detailed Description

Base class for controllers.

5.1.2 Member Function Documentation

5.1.2.1 attachController()

Method for attaching controller to lua state.

Parameters

lua Lua state to attach to.

Reimplemented in EventController.

5.1.3 Member Data Documentation

5.1.3.1 luaNamespace

```
std::string Controller::luaNamespace
```

Name of lua namespace to use. This will be used as the base class name in lua scripts

The documentation for this class was generated from the following file:

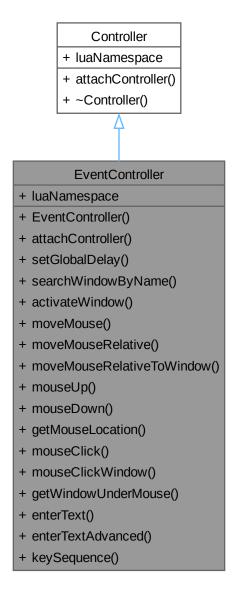
· src/Controller.hpp

5.2 EventController Class Reference

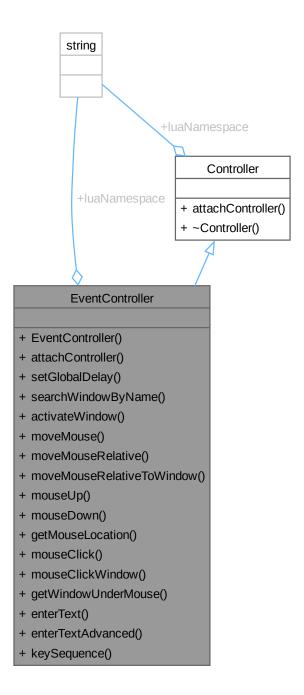
Class for handling X11 events.

#include <EventController.hpp>

Inheritance diagram for EventController:



Collaboration diagram for EventController:



Public Member Functions

- void attachController (sol::state &lua)
- void setGlobalDelay (int newDelay)
- Window searchWindowByName (std::string name)
- void activateWindow (Window window)
- void moveMouse (int x, int y)

- void moveMouseRelative (int x, int y)
- void moveMouseRelativeToWindow (Window window, int x, int y)
- void mouseUp (Window window, int button)
- void mouseDown (Window window, int button)
- std::tuple< int, int > getMouseLocation ()
- · void mouseClick (int button)
- void mouseClickWindow (Window window, int button)
- Window getWindowUnderMouse ()
- void enterText (std::string text)
- void enterTextAdvanced (std::string text, Window window, uint delay)
- void keySequence (std::string sequence)

Public Member Functions inherited from Controller

Public Attributes

• std::string luaNamespace = "event"

Public Attributes inherited from Controller

std::string luaNamespace

5.2.1 Detailed Description

Class for handling X11 events.

This class provides functions for sending events to X11. The class is exposed in lua as "event" namespace. Bindings are defined in attachController method.

5.2.2 Member Function Documentation

5.2.2.1 attachController()

Method for attaching controller to lua state.

Parameters

```
lua Lua state to attach to.
```

Reimplemented from Controller.

5.2.2.2 enterText()

Type a string to the current window.

Parameters

text	The string to type, like "Hello world!"
------	---

5.2.2.3 enterTextAdvanced()

Type a string to the specified window with specified delay.

Parameters

text	The string to type, like "Hello world!"
window	The window you want to send keystrokes to or CURRENTWINDOW
delay	The delay between keystrokes in microseconds

5.2.2.4 getMouseLocation()

```
std::tuple< int, int > EventController::getMouseLocation ()
```

Get the current mouse location.

Returns

A tuple of X and Y coordinates.

5.2.2.5 getWindowUnderMouse()

```
Window EventController::getWindowUnderMouse ()
```

Get the window the mouse is currently over

Returns

Selected window

5.2.2.6 keySequence()

Send a keysequence to the current window.

This allows you to send keysequences by symbol name. Any combination of X11 KeySym names separated by '+' are valid. Single KeySym names are valid, too.

Examples: "I" "semicolon" "alt+Return" "Alt_L+Tab"

Parameters

sequence	The string keysequence to send.
----------	---------------------------------

5.2.2.7 mouseClick()

Send a click for a specific mouse button at the current mouse location to the current window.

Parameters

5.2.2.8 mouseClickWindow()

Send a click for a specific mouse button at the current mouse location to a specific window.

Parameters

window	The window you want to send the event
button	The mouse button. Generally, 1 is left, 2 is middle, 3 is right, 4 is wheel up, 5 is wheel down.

5.2.2.9 mouseDown()

Send a mouse press (aka mouse down) for a given button at the current mouse location.

Parameters

window	The window you want to send the event to
button	The mouse button. Generally, 1 is left, 2 is middle, 3 is right, 4 is wheel up, 5 is wheel down.

5.2.2.10 mouseUp()

Send a mouse release (aka mouse up) for a given button at the current mouse location.

Parameters

window	The window you want to send the event to	
button	The mouse button. Generally, 1 is left, 2 is middle, 3 is right, 4 is wheel up, 5 is wheel down.	l

5.2.2.11 moveMouse()

Move the mouse to a specific location.

Parameters

	the target X coordinate on the screen in pixels.
У	the target Y coordinate on the screen in pixels.

5.2.2.12 moveMouseRelative()

Move the mouse relative to it's current position.

Parameters

Х	the distance in pixels to move on the X axis.
У	the distance in pixels to move on the Y axis.

5.2.2.13 moveMouseRelativeToWindow()

Move the mouse to a specific location relative to the top-left corner of a window.

Parameters

window	the target window.	
Х	the target X coordinate on the screen in pixels.	
У	the target Y coordinate on the screen in pixels.	

The documentation for this class was generated from the following files:

- src/EventController.hpp
- src/EventController.cpp

5.3 LuaMacroHandler Class Reference

Class for handling lua macros.

#include <LuaMacroHandler.hpp>

Collaboration diagram for LuaMacroHandler:

LuaMacroHandler

- + LuaMacroHandler()
- + runFromFile()

Public Member Functions

• void runFromFile (std::string name)

5.3.1 Detailed Description

Class for handling lua macros.

This class provides functions for running lua macros. It is also responsible for creating and attaching controllers for various functionality.

5.3.2 Member Function Documentation

5.3.2.1 runFromFile()

Runs lua macro from file.

Parameters

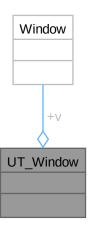
name Name of file to run.

The documentation for this class was generated from the following files:

- src/LuaMacroHandler.hpp
- src/LuaMacroHandler.cpp

5.4 UT_Window Struct Reference

Collaboration diagram for UT_Window:



Public Attributes

• Window v

The documentation for this struct was generated from the following file:

• src/EventController.hpp

File Documentation

6.1 Controller.hpp

```
00001 #pragma once
00002
00003 #include <sol/sol.hpp>
00007 class Controller {
00008 public:
00013    std::string luaNamespace;
00019    virtual void attachController(sol::state &lua) {};
00020    virtual
```

6.2 EventController.hpp

```
00001 #pragma once
00002 #include "Controller.hpp"
00003 #include <X11/X.h>
00004 #include <string>
00005 #include <tuple>
00006 #include <xdo.h>
00007
00008 struct UT_Window {
00009
        Window v;
00010 };
00018 class EventController : public Controller {
00019 xdo_t *instance;
00020 int defaultDelay;
00021
00022 public:
00023 std::string luaNam
00024 EventController();
        std::string luaNamespace = "event";
00025
         void attachController(sol::state &lua);
00026
        void setGlobalDelay(int newDelay);
00027
        Window searchWindowByName(std::string name);
00028
        void activateWindow (Window window);
00029
        // MOUSE EVENTS
        void moveMouse(int x, int y);
void moveMouseRelative(int x, int y);
00036
00043
00052
         void moveMouseRelativeToWindow(Window window, int x, int y);
00061
        void mouseUp(Window window, int button);
00070
        void mouseDown(Window window, int button);
std::tuple<int, int> getMouseLocation();
void mouseClick(int button);
00076
         void mouseClickWindow(Window window, int button);
00099
        Window getWindowUnderMouse();
00101
        // KEYBOARD EVENTS
00102
00109
        void enterText(std::string text);
00117
        void enterTextAdvanced(std::string text, Window window, uint delay);
        void keySequence(std::string sequence);
00135 };
```

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6.3 LuaMacroHandler.hpp

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