

Министерство образования Республики Беларусь

Учреждение образования
БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ
ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ

Факультет компьютерных систем и сетей

Кафедра программного обеспечения информационных технологий

Дисциплина: Надежность программного обеспечения (НПО)

ОТЧЕТ

По лабораторной работе №5
«Работа в среде автоматизированного тестирования TestComplete»

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Проверил

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Практическая часть

В качестве тестируемого приложения выбрано приложение Notepad++.

Тесты

1. Создание и сохранение нового файла

Item	Operation	Value	Description
notepad_			
wndNotepad			
Scintilla	Keys	'program NPO'	Enters 'program NPO' in the 'Scintil...
MainMenu	Click	'Файл Сохранить'	Moves the mouse cursor to the m...
dlg_			
VScroll	Pos [Set]	0	Sets the 'VScroll' scrollbar control t...
tv_	Click	...	Clicks the 'tv_' object.
Edit	Drag	31, 8, -48, 0	Drags the 'Edit' object.
ComboBox	SetText	'Npo.txt'	Enters the text 'Npo.txt' in the 'C...
btn_	ClickButton		Clicks the 'btn_' button.

2. Открытие, редактирование и сохранение файла

Item	Operation	Value	Description
notepad_			
wndNotepad			
MainMenu	Click	'Файл Открыть'	Moves the mouse cursor to the m...
dlg_2			
tv_	ClickItem	' Рабочий стол Этот компьютер	Clicks the ' Рабочий стол Этот к
Item	Click	'Npo.txt', ...	
btn_	ClickButton		Clicks the 'btn_' button.
wndNotepad			
Scintilla	Keys	'123'	Enters '123' in the 'Scintilla' object.
MainMenu	Click	'Файл Сохранить'	Moves the mouse cursor to the m

3. Поиск и замена слова

Item	Operation	Value	Description
notepad_			
wndNotepad			
MainMenu	Click	'Поиск Замена...'	Moves the mouse cursor to the m...
dlg_3			
Edit	Click	...	Clicks the 'Edit' object.
cbx_	SetText	'БГУИР'	Enters the text 'БГУИР' in the 'cbx
check_	ClickButton	cbChecked	Sets the state of the 'check_' che
check_2	ClickButton	cbChecked	Sets the state of the 'check_2' ch
check_3	ClickButton	cbChecked	Sets the state of the 'check_3' ch
btn_	ClickButton		Clicks the 'btn_' button.
dlg_3	Close		Closes the 'dlg_3' window.

4. Функция быстрого

Item	Operation	Value	Description
notepad_			
wndNotepad			
Scintilla	Keys	'БГ[Enter] - лы[Enter] м'	Enters 'БГ[Enter] - лы[Enter] м' in ...
wndListBoxX			
ListBox	ClickItemXY	0, 22, 16	Clicks the 0 item of the 'ListBox' lis
ListBox	ClickItemXY	0, 41, 2	Clicks the 0 item of the 'ListBox' lis
ListBox	DbClickItemXY	0, 71, 8	Double-clicks the 0 item of the 'Lis
wndNotepad			
Scintilla	Keys	' д'	Enters ' д' in the 'Scintilla' object.
wndListBoxX			
ListBox	DbClickItemXY	0, 92, 9	Double-clicks the 0 item of the 'Lis
wndNotepad			
Scintilla	Keys	' уч'	Enters ' уч' in the 'Scintilla' object.
wndListBoxX			
ListBox	DbClickItemXY	0, 57, 9	Double-clicks the 0 item of the 'Lis
wndNotepad			
Scintilla	Keys	' БГ[Enter]'	Enters ' БГ[Enter]' in the 'Scintilla'

5. Ввод, отмена и повтор

Item	Operation	Value	Description
notepad_			
wndNotepad			
Scintilla	Keys	' 55652163127312738723678 [En...	Enters ' 55652163127312738723...
toolbar	ClickItem	42003, false	Clicks the 42003 item of the 'toolb
toolbar	ClickItem	42004, false	Clicks the 42004 item of the 'toolb
Scintilla	Keys	' abcde'	Enters ' abcde' in the 'Scintilla' obj
toolbar	ClickItem	42003, false	Clicks the 42003 item of the 'toolb
toolbar	ClickItem	42004, false	Clicks the 42004 item of the 'toolb
toolbar	ClickItem	42003, false	Clicks the 42003 item of the 'toolb
toolbar	ClickItem	42004, false	Clicks the 42004 item of the 'toolb
toolbar	DbClickItem	42003, false	Double-clicks the 42003 item of th
toolbar	ClickItem	42003, false	Clicks the 42003 item of the 'toolb
toolbar	DbClickItem	42003, false	Double-clicks the 42003 item of th
toolbar	DbClickItem	42004, false	Double-clicks the 42004 item of th
toolbar	ClickItem	42004, false	Clicks the 42004 item of the 'toolb

6. Добавление новых вкладок и переключение между ними

Item	Operation	Value	Description
notepad_			
wndNotepad			
Scintilla	Click	...	Clicks the 'Scintilla' object.
Scintilla	Keys	'^т^т^т^т^т'	Enters '^т^т^т^т^т' in the 'Scintilla' object.
MainMenu	Click	'Файл Новый'	Moves the mouse cursor to the menu item ...
MainMenu	Click	'Файл Новый'	Moves the mouse cursor to the menu item ...
MainMenu	Click	'Файл Новый'	Moves the mouse cursor to the menu item ...
MainMenu	Click	'Файл Новый'	Moves the mouse cursor to the menu item ...
Tab	ClickTab	'new 8'	Selects the 'new 8' tab of the 'Tab' tab con...
Tab	ClickTab	'new 7'	Selects the 'new 7' tab of the 'Tab' tab con...
Tab	ClickTab	'Npo.txt'	Selects the 'Npo.txt' tab of the 'Tab' tab co...
Tab	ClickTab	'new 2'	Selects the 'new 2' tab of the 'Tab' tab con...
Tab	ClickTab	'new 1'	Selects the 'new 1' tab of the 'Tab' tab con...
Tab	ClickTab	'new 3'	Selects the 'new 3' tab of the 'Tab' tab con...
Tab	ClickTab	'new 4'	Selects the 'new 4' tab of the 'Tab' tab con...
Tab	ClickTab	'new 5'	Selects the 'new 5' tab of the 'Tab' tab con...
Tab	ClickTab	'new 6'	Selects the 'new 6' tab of the 'Tab' tab con...
Tab	ClickTab	'new 7'	Selects the 'new 7' tab of the 'Tab' tab con...
Scintilla	Keys	'^[Tab]^[Tab]^[Tab]'	Enters '^[Tab]^[Tab]^[Tab]' in the 'Scintill...
dlg			
ListView	Keys	'^[Tab]^[Tab]'	Enters '^[Tab]^[Tab]' in the 'ListView' object.
wndNotepad			
Scintilla	Keys	'^[Tab]'	Enters '^[Tab]' in the 'Scintilla' object.
dlg			
ListView	ClickItem	'new 3', 0, skCtrl	Clicks the 0 subitem of the 'new 3' item of t...
wndNotepad			
Scintilla	Keys	'^[Tab]'	Enters '^[Tab]' in the 'Scintilla' object.
dlg			
ListView	ClickItem	'C:\Users\Надежда\Desktop\Npo.txt', 0, s...	Clicks the 0 subitem of the 'C:\Users\Наде...
wndNotepad			
Tab	ClickTab	'new 8'	Selects the 'new 8' tab of the 'Tab' tab con...
Tab	ClickTab	'Npo.txt'	Selects the 'Npo.txt' tab of the 'Tab' tab co...
Tab	ClickTab	'new 3'	Selects the 'new 3' tab of the 'Tab' tab con...
wndNotepad	Click	...	Clicks the 'wndNotepad' object.
wndNotepad			
Tab	ClickTab	'new 4'	Selects the 'new 4' tab of the 'Tab' tab con...
Tab	ClickTab	'new 8'	Selects the 'new 8' tab of the 'Tab' tab con...

7. Изменение позиции и размера

Item	Operation	Value	Description
notepad_			
wndNotepad	Drag	1422, 17, -56, 91	Drags the 'wndNotepad' object.
wndNotepad	Drag	1929, 4, -1010, 396	Drags the 'wndNotepad' object.
wndNotepad	Drag	684, 23, 399, -227	Drags the 'wndNotepad' object.
wndNotepad	Drag	914, 694, -801, -609	Drags the 'wndNotepad' object.
wndNotepad	Drag	131, 65, 242, 20	Drags the 'wndNotepad' object.
wndNotepad	Drag	367, 84, 514, 356	Drags the 'wndNotepad' object.
wndNotepad	Minimize		Minimizes the 'wndNotepad' window.
wndNotepad	Activate		Activates the 'wndNotepad' window.
wndNotepad	Maximize		Maximizes the 'wndNotepad' window.

8. Изменение стилей программы

Item	Operation	Value	Description
notepad_			
wndNotepad			
MainMenu	Click	'Опции Определение стилей...'	Moves the mouse cursor to the menu item ...
dlg_4			
cbx_	ClickItem	'Navajo'	Selects the 'Navajo' item of the 'cbx_' comb
cbx_	ClickItem	'Solarized-light'	Selects the 'Solarized-light' item of the 'cbx_'
cbx_	ClickItem	'Black board'	Selects the 'Black board' item of the 'cbx_'
cbx_	ClickItem	'Vibrant Ink'	Selects the 'Vibrant Ink' item of the 'cbx_' c
cbx_	ClickItem	'Zenburn'	Selects the 'Zenburn' item of the 'cbx_' comb
cbx_	ClickItem	'Obsidian'	Selects the 'Obsidian' item of the 'cbx_' co
cbx_	ClickItem	'Hello Kitty'	Selects the 'Hello Kitty' item of the 'cbx_' co
cbx_	ClickItem	'Default (stylers.xml)'	Selects the 'Default (stylers.xml)' item of th
cbx_2	ClickItem	'Times New Roman'	Selects the 'Times New Roman' item of the '
dlg_4	Click	...	Clicks the 'dlg_4' object.
dlg_4			
ComboBox	ClickItem	'14'	Selects the '14' item of the 'ComboBox' com
check_	ClickButton	cbChecked	Sets the state of the 'check_' check box to
trackbar	wPosition [Set]	200	Sets the 'trackbar' scrollbar control to posi
check_	ClickButton	cbUnchecked	Sets the state of the 'check_' check box to
btn_	ClickButton		Clicks the 'btn_' button.

9. Настройка параметров печати

Item	Operation	Value	Description
notepad_			
wndNotepad			
MainMenu	Click	'Опции Настройки...'	Moves the mouse cursor to the menu item ...
dlg_5			
ListBox	ClickItem	'Печать'	Clicks the 'Печать' item of the 'ListBox' list ...
radio_	ClickButton		Clicks the 'radio_' radio button.
check_	ClickButton	cbUnchecked	Sets the state of the 'check_' check box to ...
Edit	Click	...	Clicks the 'Edit' object.
Edit	SetText	'10'	Enters the text '10' in the 'Edit' text editor.
Edit2	Click	...	Clicks the 'Edit2' object.
Edit2	SetText	'5'	Enters the text '5' in the 'Edit2' text editor.
Edit3	Click	...	Clicks the 'Edit3' object.
Edit3	SetText	'5'	Enters the text '5' in the 'Edit3' text editor.
Edit4	Click	...	Clicks the 'Edit4' object.
Edit4	SetText	'10'	Enters the text '10' in the 'Edit4' text editor.
Edit5	Click	...	Clicks the 'Edit5' object.
ComboBox	ClickItem	'System'	Selects the 'System' item of the 'ComboBox...
ComboBox2	ClickItem	'14'	Selects the '14' item of the 'ComboBox2' co...
check_2	ClickButton	cbChecked	Sets the state of the 'check_2' check box t...
ComboBox3	ClickItem	'System'	Selects the 'System' item of the 'ComboBox...
ComboBox4	ClickItem	'14'	Selects the '14' item of the 'ComboBox4' co...
check_3	ClickButton	cbChecked	Sets the state of the 'check_3' check box t...
cbx_	ClickItem	'File name'	Selects the 'File name' item of the 'cbx_' co...
dlg_5	Close		Closes the 'dlg_5' window.

10. Настройка сочетаний клавиш

```
1 procedure Test1;
2 begin
3     //Moves the mouse cursor to the menu item specified and then simulates a single click.
4     Aliases.notepad_.wndNotepad.MainMenu.Click('Опции|Сочетание клавиш...');
5     //Sets the 'VScroll' scrollbar control to position 1.
6     Aliases.notepad_.dlg_6.BABYGRID.VScroll.Pos := 1;
7     //Clicks the 'BABYGRID' object.
8     Aliases.notepad_.dlg_6.BABYGRID.Click(424, 286);
9     //Double-clicks the 'BABYGRID' object.
10    Aliases.notepad_.dlg_6.BABYGRID.DblClick(424, 286);
11    //Clicks the 'dlg_7' object.
12    Aliases.notepad_.dlg_7.Click(229, 128);
13    //Selects the 'F4' item of the 'ComboBox' combo box.
14    Aliases.notepad_.dlg_7.ComboBox.ClickItem('F4');
15    //Clicks the 'btn_' button.
16    Aliases.notepad_.dlg_7.btn_.ClickButton;
17    //Double-clicks the 'BABYGRID' object.
18    Aliases.notepad_.dlg_6.BABYGRID.DblClick(447, 308);
19    //Selects the 'F4' item of the 'ComboBox' combo box.
20    Aliases.notepad_.dlg_7.ComboBox.ClickItem('F4');
21    //Clicks the 'btn_' button.
22    Aliases.notepad_.dlg_7.btn_.ClickButton;
23    //Sets the 'VScroll' scrollbar control to position 103.
24    Aliases.notepad_.dlg_6.BABYGRID.VScroll.Pos := 103;
25    //Double-clicks the 'BABYGRID' object.
26    Aliases.notepad_.dlg_6.BABYGRID.DblClick(462, 144);
27    //Selects the 'M' item of the 'ComboBox' combo box.
28    Aliases.notepad_.dlg_7.ComboBox.ClickItem('M');
29    //Clicks the 'btn_' button.
30    Aliases.notepad_.dlg_7.btn_.ClickButton;
31 end;
```

11. Запись и воспроизведение макросов

```
1 procedure Test1;
2 begin
3     //Moves the mouse cursor to the menu item specified and then simulates a single click.
4     Aliases.notepad_.wndNotepad.MainMenu.Click('Макросы|Начать запись');
5     //Sets the 'HScroll' scrollbar control to position 0.
6     Aliases.notepad_.wndNotepad.Scintilla.HScroll.Pos := 0;
7     //Clicks the 'Scintilla' object.
8     Aliases.notepad_.wndNotepad.Scintilla.Click(377, 16);
9     //Enters '1234567890 234567890-12345678 ' in the 'Scintilla' object.
10    Aliases.notepad_.wndNotepad.Scintilla.Keys('1234567890 234567890-12345678 ');
11    //Moves the mouse cursor to the menu item specified and then simulates a single click.
12    Aliases.notepad_.wndNotepad.MainMenu.Click('Макросы|Остановить запись');
13    //Clicks the 'Scintilla' object.
14    Aliases.notepad_.wndNotepad.Scintilla.Click(505, 25);
15    //Enters '[Enter]' in the 'Scintilla' object.
16    Aliases.notepad_.wndNotepad.Scintilla.Keys('[Enter]');
17    //Moves the mouse cursor to the menu item specified and then simulates a single click.
18    Aliases.notepad_.wndNotepad.MainMenu.Click('Макросы|Воспроизвести');
19    //Clicks the 'Scintilla' object.
20    Aliases.notepad_.wndNotepad.Scintilla.Click(513, 42);
21    //Enters '[Enter]^3^3^3' in the 'Scintilla' object.
22    Aliases.notepad_.wndNotepad.Scintilla.Keys('[Enter]^3^3^3');
23    //Clicks the 'wndNotepad' object.
24    Aliases.notepad_.wndNotepad.Click(526, 40);
25 end;
```