Intellimorph

Bot Name: Excel Utilities

Bot Description:
This metabot allows you to perform various excel activities which will take significantly longer to perform using traditional RPA.

Bot Details:
Features:

Feature	Description
SetRangeBgColorByCode	Change the background colour of a range using a hexadecimal colour code
SetRangeBgColorByRGB	Change the background colour of a range using a RGB colour code
GetCellBgColorCode	Return the background colour code for a given cell
GetCellBgColorRGB	Return the background colour code in RGB for a given cell
InsertRows	Insert a row in between a given range
InsertColumns	Insert a column in between a given range
DeleteRows	Delete rows
DeleteColumns	Delete columns
AddWorksheet	Add a new worksheet
DeleteWorksheet	Delete an existing worksheet
ActivateWorksheet	Activate specific worksheet
ChangeWorksheetPosition	Change the position of a given worksheet by moving it
Hide	Hide the workbook
Show	Unhide the workbook
GetWorksheetPosition	Return the index of a given worksheet
GetWorksheetCount	Return the total number of worksheets
GetActiveSheetName	Return the active worksheet name
GetSheetNamesAsXML	Return the sheet names in XML format
WorksheetExists	Check a given worksheet exists
CutRange	Cuts and paste an excel range
SortSheet	Sorts a data range based on column range
protectWorksheet	Password protect a worksheet
unprotectWorksheet	Removes the protection from a worksheet

HideWorksheet	Hides a worksheet
ShowWorksheet	Shows a worksheet
GetColumnCount	Returns the number of columns in a worksheet
GerRowCount	Returns number of rows in a sheet
CopyWorksheet	Copy a worksheet to another
RenameWorksheet	Renames a worksheet
RefreshPivotTables	Refresh pivot tables in a worksheet
RefreshAllPivotTables	Refresh all pivot tables in a workbook

Benefits:

Extremely useful on manipulating excel worksheets. Methods provided in this metabot can save valuable time when it comes to developing and handling excel. Specially if you are not certain about the actual worksheet names of a file this can be used to bypass that situation.
Also can be used on your conditional formatting and various other excel manipulations.

Key Use Cases:

Report Extraction
Sometimes when you extract information from major ERP systems on the fly, they get extracted into an excel worksheet with a random name such as timestamp.
Data visualisation
Can be used to highlight the certain elements within your data to make them visually standout.

Pre-Requisites

- Automation Anywhere client installed
- Excel installed
- .net framework 4.5+
- Excel file should be open in order to perform the operations

How to use the metabot

Metabot provides nineteen (19) methods with different parameters

Method Name: ActivateWorksheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	

vWorksheetName	String	Input	

Method Name: AddWorksheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	

Method Name: ChangeWorksheetPosition

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vDestination	Int	Input	

Method Name: DeleteColumns

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vRange	String	Input	

Method Name: DeleteRows

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vRange	String	Input	

Method Name: DeleteWorksheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	

Method Name: GetActiveSheetName

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Output	

Method Name: GetCellBgColorCode

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	

vWorksheetName	String	Input	
vCellRef	String	Input	
vColourCode	String	Output	

Method Name: GetCellBgColorRGB

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vCellRef	String	Input	
vRGBColourCode	String	Output	

Method Name: GetCellBgColorRGB

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vSheetNameXML	String	Output	

Method Name: GetWorksheetCount

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetCount	int	Output	

Method Name: GetWorksheetPosition

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vWorksheetPosition	String	Output	

Method Name: HideWorkbook

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	

Method Name: ShowWorkbook

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	

Method Name: InsertColumns

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vRange	String	Input	

Method Name: InsertRows

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vRange	String	Input	

Method Name: SetRangeBgColorByCode

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vRange	String	Input	
vColourCode	Int	Input	

Method Name: SetRangeBgColorByCode

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vRange	String	Input	
vRed	Int	Input	
vGreen	Int	Input	
vBlue	Int	Input	

Method Name: WorksheetExists

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vWorksheetExists	String	Output	

Method Name: CutRange

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vSourceRange	String	Input	
vDestinationRange	String	Input	

Method Name: SortSheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vSortColumnRange	String	Input	
vDataRange	String	Input	
vHeaderExists	String	Input	True if headers exist
vSortOrder	String	Input	ascending for Ascending order. Anything else will be descending.

Method Name: ProtectWorksheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vPassword	String	Input	

Method Name: UnprotectWorksheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vPassword	String	Input	

Method Name: HideWorksheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	

Method Name: ShowWorksheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	

Method Name: GetColumnCount

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	

Method Name: GetRowCount

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	

Method Name: CopyWorksheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vNewWorksheetName	String	Input	

Method Name: RenameWorksheet

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	
vNewWorksheetName	String	Input	

Method Name: RefreshPivotTables

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	
vWorksheetName	String	Input	

Method Name: RefreshAllPivotTables

Parameter Name	Type	Direction	Additional Info
vWorkbookName	String	Input	

Examples

Refer the sample AA task to invoke metabot.

Bot Deployment

Copy the metabot (ExcelUtilities.mbot) from package (AA Home\Automation Anywhere\My MetaBots) to your %AA Home%\Automation Anywhere\My MetaBots