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Date: 17-06-2025...

Add File Associations via MSI

01) What is msi: An MSI file (Microsoft Installer file) is a special type of installation package used on Windows to install, update, or uninstall software. It uses the Windows Installer service (msiexec.exe) to manage the process.

Msi file contains Files to be installed, Installation instructions, Registrychanges,

Shortcuts.Custom actions and Uninstall information

02) What is a file associations: A file association links a file extension (like .txt, .jpg, or .mp4) with a default program that can open it.

For example:

.txt → opens with Notepad

.jpg → opens with Photos

.mp4 → opens with Movies & TV (or VLC, if installed)

03) Goal : Main goal of this project is a file associations to a application using msi file. I am going to use firefox msi file for file association with file extentions like wishu,.cpp,.ram.

You can download firefox msi from here.

04) Tool used : there are many ways and tools available in he markey for file association , Like : Advance installer GUI, Orca Tool, instead.but o have used orca for msi file association.

Orca Tool : Orca is a free Windows Installer package editor from Microsoft. It lets you directly view and edit the internal database tables of .msi including setting file associations, modifying components, registry entries, shortcuts, and more.

You can download orca sdk tool from <u>link</u>.

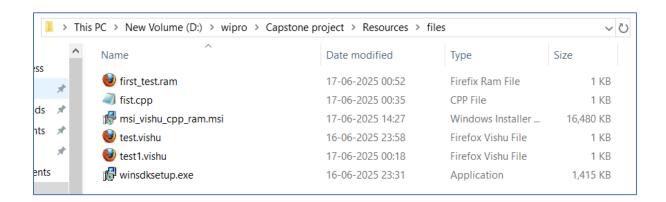
After download you will see a winsdksetup.exe file.

winsdksetup.exe 16-06-2025 23:31 Application 1,415 KB

05) Project Requirements:

To complete this project, the following tools and files are needed:

- Windows Operating System (Windows 10 or 11)
- Windows SDK (to install the Orca tool)
- Orca Tool (used to edit the MSI file)
- Firefox MSI File (e.g., Firefox.msi)
- Basic knowledge of how MSI files work
- Notepad (to create a .vishu,.ram test file)
- Files with custom extentions. (like .ram .vishu .cpp)
- Admin rights (to install SDK and run MSI)

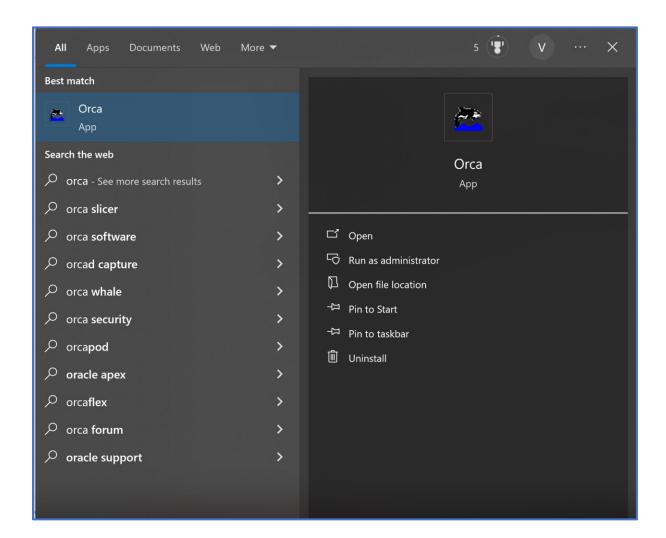


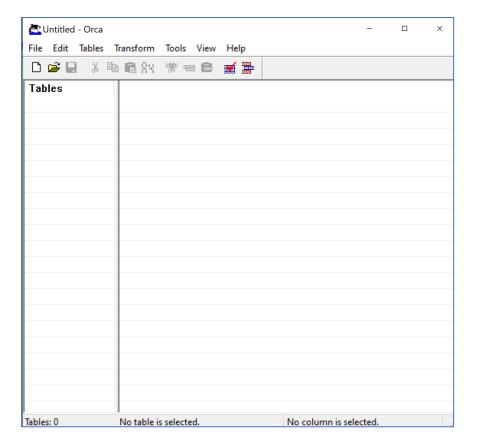
06) Steps to install Orca: double click or execute the winsdksetup.exe file ,which is downloaded recently.

Follow the installation wizard, your orca sdk will be installed at your specified location in installation wizard.

My orca sdk is downloaded at path: C:\Program Files (x86)\Windows Kits

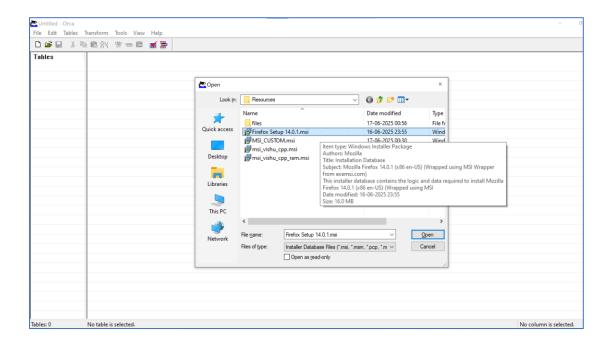
07) Steps to associate file with msi: first open Orca tool.



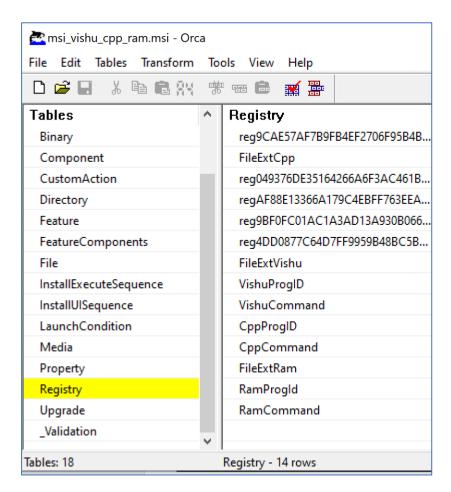


Open the msi file with which, you want to asocoate a custom files.

I am using firefox msi file.

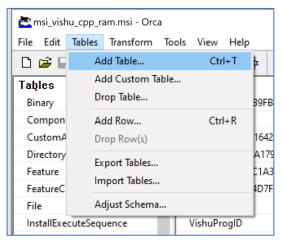


After opening msi file successfuly, navigate to tables pane in left side and find for registry table and open it.



If there is no registry able then click on table meuu at tool bar and navigate to add Table and

Check registry and click ok.



After opening registry table right click and select add row.

For one extention you have to add three registry values.

(File extention, Prog id and Command)

Add registry keys as below.

1. Registries for .vishu extention:

Registry	Ro	Key	Value	Component
	ot			
FileExtVishu	0	.vishu	FirefoxHTML.vi	bz.ProductComp
			shu	onent
VishuProgID	0	FirefoxHTML.vishu	Firefox Vishu	bz.ProductComp
			File	onent
VishuComm	0	FirefoxHTML.vishu\shell\open\c	"C:\Program	bz.ProductComp
and		ommand	Files	onent
			(x86)\Mozilla	
			Firefox\firefox.	
			exe" "%1"	

FileExtVishu	0	.vishu	FirefoxHTML.vishu	bz.ProductComp
VishuProgID	0	FirefoxHTML.vishu	Firefox Vishu File	bz.ProductComp
VishuCommand	0	FirefoxHTML.vish	"C:\Program File	bz.ProductComp

2. Registries for .cpp extention

Registry	Ro	Key	Value	Component
	ot			
CppProgID	0	FirefoxHTML.cpp	Firefox CPP File	bz.ProductCompo
				nent
CppComm	0	FirefoxHTML.cpp\shell\open\co	"C:\Program	bz.ProductCompo
and		mmand	Files	nent
			(x86)\Mozilla	
			Firefox\firefox.	
			exe" "%1"	

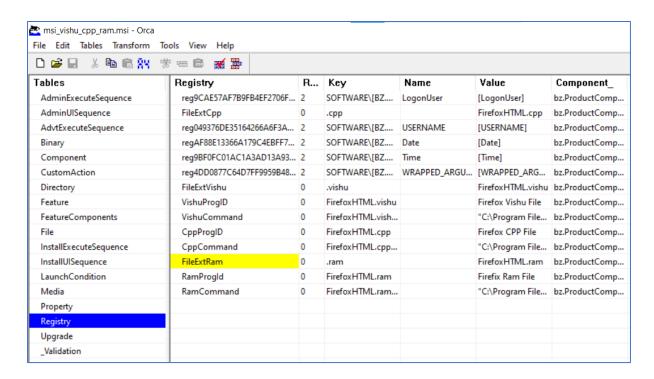
CppProgID	0	FirefoxHTML.cpp	Firefox CPP File	bz.ProductComp
CppCommand	0	FirefoxHTML.cpp	"C:\Program File	bz.ProductComp

FileExtRam	0	.ram	FirefoxHTML.ram	bz.ProductComp
RamProgld	0	FirefoxHTML.ram	Firefix Ram File	bz.ProductComp
RamCommand	0	FirefoxHTML.ram	"C:\Program File	bz.ProductComp

3. Registries for .ram extention

Registry	Ro	Key	Value	Component
	ot			
FileExtRam	0	.ram	FirefoxHTML.ra	bz.ProductCompo
			m	nent
RamProgId	0	FirefoxHTML.ram	Firefix Ram File	bz.ProductCompo
				nent
RamComm	0	FirefoxHTML.ram\shell\open\co	"C:\Program	bz.ProductCompo
and		mmand	Files	nent
			(x86)\Mozilla	
			Firefox\firefox.	
			exe" "%1"	

All Registry vaues are:



Registry: it is a unique identifier (primary key) for this registry entry.

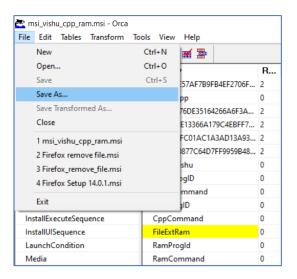
Root: Specifies the root key in the Windows Registry. 0 for default.

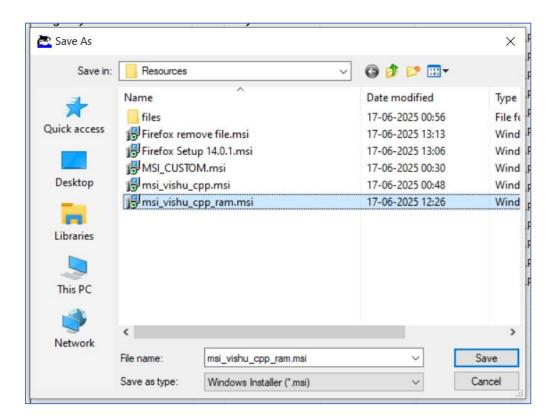
<u>Value</u>: The subkey (path) under the root where the value will be written.

<u>Component</u>: References a component that controls the installation/uninstallation of this registry key/value.

08) Got to file mu and savefile as save as file and give a custom ane to file.

Eg. msi_vishu_cpp_ram.msi



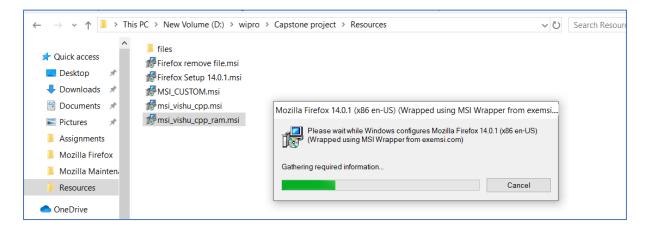


My msi file is stored at location:

"D:\wipro\Capstoneproject\Resources\msi_vishu_cpp_ram.msi"

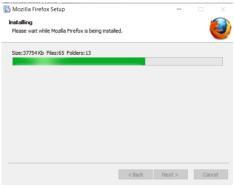
09) Run the custom msi file:

Go to msi file location and run firefox msi setup file.

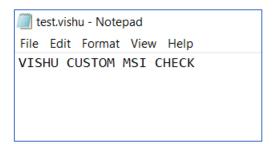


Installation wizard will be shown.complete the installation using follow the wizard.

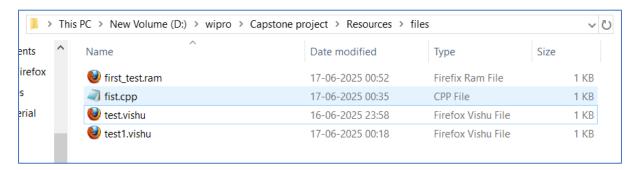




10) Create a text file: open notepad and create a text file with custom extention and save it. My file is stored at: D:\wipro\Capstone project\Resources\files\test.vishu



11) Goto that custom text file and open it.



The file will be automatically opened in firefox browser in rea-only mode.

