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Edit Custom Tables in Orca

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 to edit custom tables in msi file and perform actions automatically like,

Create environment variable

Create/delete/modify Registry.

You can download firefox msi from here.

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

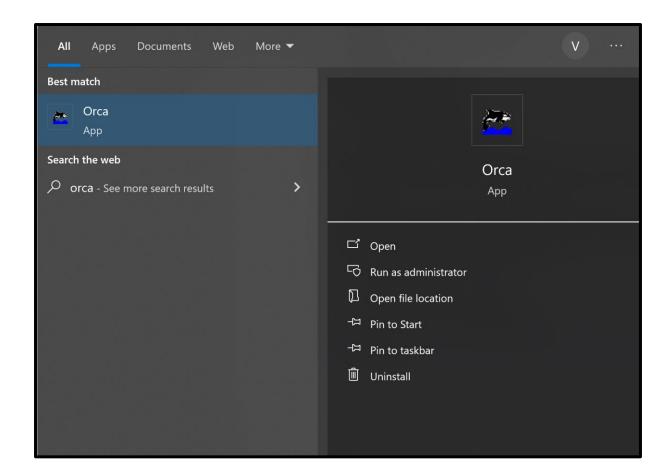
Orca Tool : Orca is a free Windows Installer package editor from Microsoft. It lets you directly view and edit the internal database tables of .msi including setting file associations, modifying components, registry entries, shortcuts, and more.

You can download orca sdk tool from link.

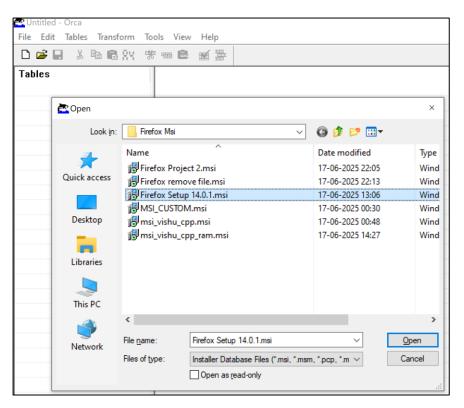
After download you will see a winsdksetup.exe file.

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

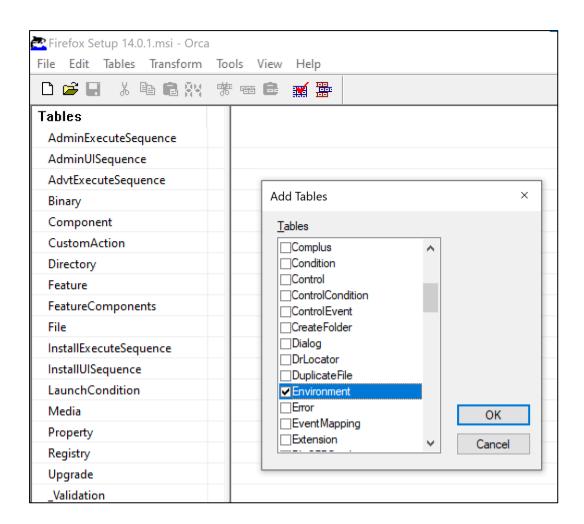
05) open Orca tool: click on start menu and searchfor orca tool and open it.



06) Open firefox msi file:



07) Add Missing tables: click on table meny and then click on Menu->table->new to add new table.



The **Environment Table** in an **MSI** package is used to create, modify, or remove environment variables during the installation or uninstallation of an application.

Add the following values to add custom environment variable.

Enviroment	Name	Vakue	Component_	
FIREFOX_HOME="C:\Program	FIREFOX_HOME	C:\Program Files	bz.ProductComponent	
Files (x86)\Mozilla Firefox"		(x86)\Mozilla Firefox		

This creates a environment variable as: FIREFOX_HOME= C:\Program Files (x86)\Mozilla Firefox

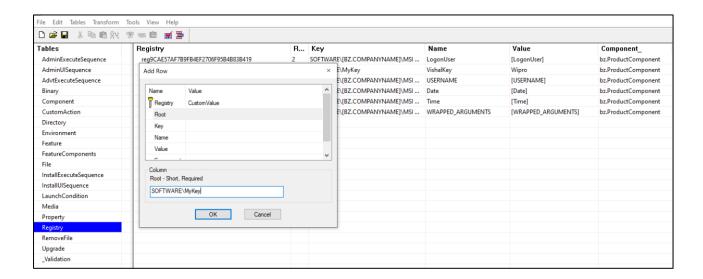


08) Create custom Registry: to create a custom registry navigate to the Registry Table. And click on add row ,then add following values

Registry	Root	Key	Name	Value	Component_
CustomRegistry	2	SOFTWARE\MyKey	VishalKey	Wipro	bz.ProductComponent

Registry	R	Key	Name	Value	Component_
reg9CAE57AF7B9FB4EF2706F95B4B83B419	2	SOFTWARE\[BZ.COMPANYNAME]\MSI	LogonUser	[LogonUser]	bz.ProductComponent
CustomRegistry	2	SOFTWARE\MyKey	VishalKey	Wipro	bz.ProductComponent

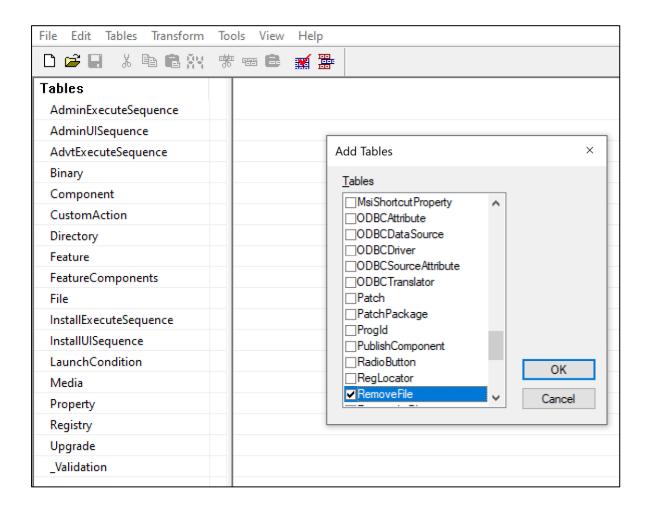
This creates a custom registry at : Computer\HKEY_LOCAL_MACHINE\SOFTWARE\MyKey With value wipro.



09) Add Entries to RemoveFile Table:

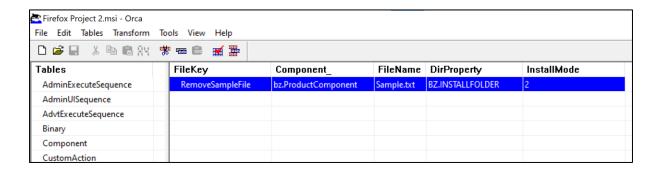
This table removes files/folders on install or uninstall

Click on table menu->add table then select RemoveFile table to add tabe.



Add values in RemoveFile table as below:

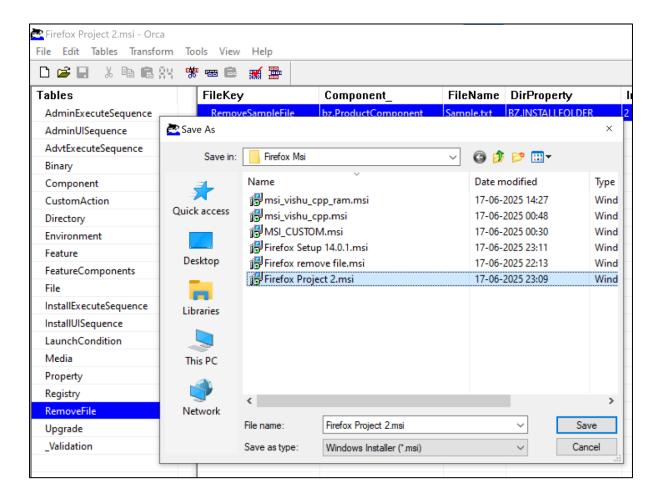
FileKey	Compnent_	Name	DirProperty	InstallMo de
RemoveSampleF	bz.ProductCompon	Sample.t	BZ.INSTALLFOLD	2
ile	ent	xt	ER	



It will remove Saple.txt file from installer directry, when we uninstall application.

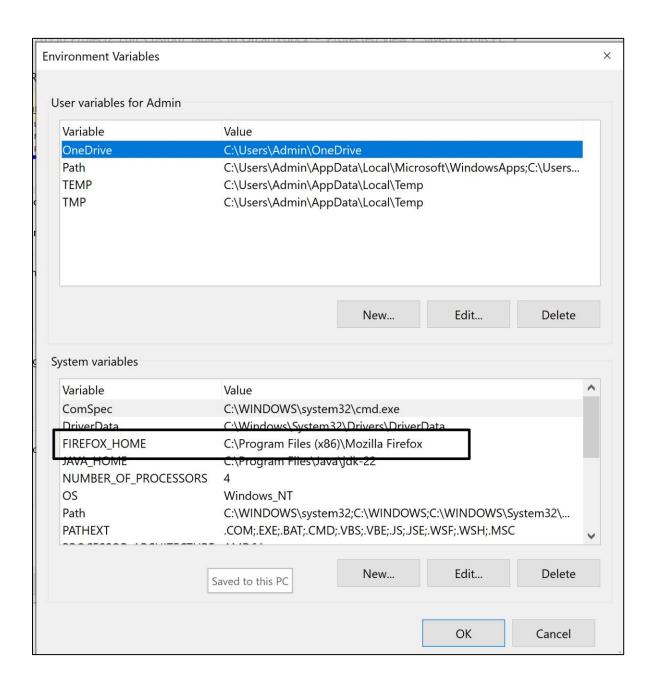
10) Save the msi file and install application:

my msi installer file is saved at location: D:\wipro\Capstone-project\Resources\Firefox Msi\Firefox Project 2.msi. go to that path in run installer file,

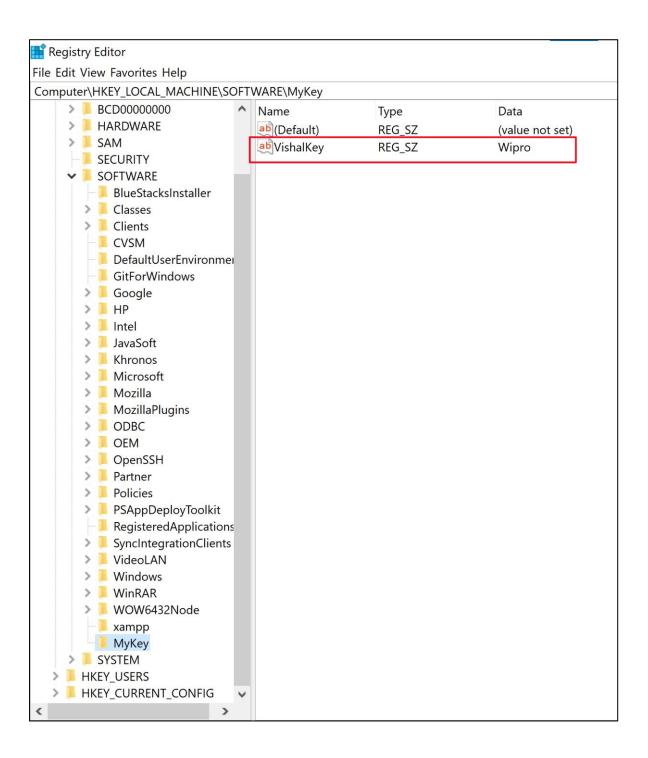


After the file installation check the Environment Variable, Registry keys etc

Enviroment Variables:



Registry Editor:



11) Conclusion:

in conclusion.

- Orca allows powerful customization of MSI behavior
- By manually editing Environment, RemoveFile, and Registry tables, we can Set environment variables, Clean up unnecessary files, Configure registry entries, etc
- These techniques are valuable for software packaging, enterprise deployment, and system integration.