List of Projects for Capstone

Application packaging/Repackaging

Kiran VVN

2025

Contents

[MSI/MSIX Repackaging Projects 3](#_Toc198888650)

[MSI Repackaging Projects 3](#_Toc198888651)

[MSIX Repackaging Projects 4](#_Toc198888652)

[Advanced Customization & MSI Table Editing 5](#_Toc198888653)

# MSI/MSIX Repackaging Projects

# MSI Repackaging Projects

1. **Convert EXE Installer to Silent MSI**
   * Capture an EXE-based installer using AdminStudio or Advanced Installer and convert it into a silent MSI.
2. **Repackage a Software with Custom Installation Directory**
   * Customize the MSI to install in a specific path (e.g., C:\Apps\MySoftware).
3. **Embed License File into MSI**
   * Modify MSI to place a license key file in the correct directory automatically.
4. **Add/Remove Custom Shortcuts in MSI**
   * Use Orca or Advanced Installer to control shortcut creation on the Desktop, Start Menu, and Taskbar.
5. **Repackage Software with Predefined Registry Settings**
   * Add user or machine-level registry entries directly into the MSI.
6. **Add File Associations via MSI**
   * Configure the MSI to associate certain file extensions with the application.
7. **Create Transform File (MST) to Customize an MSI**
   * Use MST to modify an existing vendor MSI without editing the original file.
8. **Bundle Multiple MSI Files into a Single Installation**
   * Chain multiple MSI installers into one bundled package using Advanced Installer.
9. **Patch an MSI with New Version or Updated Files**
   * Create and apply MSP (patch) files to an existing MSI installation.
10. **Modify MSI to Skip Auto-Update Functionality**
    * Disable auto-update via properties or registry during MSI install.

# MSIX Repackaging Projects

1. **Convert MSI to MSIX using MSIX Packaging Tool**
   * Migrate a traditional MSI app to MSIX format.
2. **Create MSIX with App Capabilities and Permissions**
   * Define capabilities such as network access, file system access, etc.
3. **Repackage UWP App to MSIX Bundle**
   * Create a signed and deployable MSIX bundle of a modern UWP app.
4. **Digitally Sign an MSIX Package**
   * Create or use a certificate to sign an MSIX package.
5. **Add Services to MSIX using Packaging Extensions**
   * Configure your MSIX to include required Windows services.
6. **Handle AppData Redirection in MSIX Packages**
   * Use Package Support Framework to support legacy behaviors.
7. **Customize MSIX App Launch Behavior**
   * Modify the AppxManifest.xml to control app behavior and appearance.
8. **Build MSIX with Dependency on Framework Packages**
   * Include framework packages like VCLibs or .NET as dependencies.
9. **Enable Update via MSIX Package Installer**
   * Implement version management using Publisher, Version, and Package Identity.
10. **Deploy MSIX Using PowerShell with Certificate**
    * Use PowerShell to install MSIX and manage trusted certificates.

# Advanced Customization & MSI Table Editing

1. **Customize MSI Dialog UI with Branding**
   * Change welcome screen, logo, and dialog text in the MSI interface.
2. **Add a Launch Condition (e.g., OS Version)**
   * Restrict installation to certain OS versions or hardware.
3. **Insert Custom Actions in MSI**
   * Add scripts (PowerShell, CMD) to run during install/uninstall.
4. **Edit Property Table for Conditional Install Features**
   * Set INSTALLLEVEL, ADDLOCAL, REMOVE properties.
5. **Capture System Changes Using Snapshot Tools**
   * Use tools like Repackager (InstallShield) to snapshot and convert EXE installs.
6. **Edit Custom Tables in Orca**
   * Manually add tables such as Environment, RemoveFile, or Registry.
7. **Remove Unwanted Features from a Vendor MSI**
   * Strip out optional components not required for deployment.
8. **Create Language-Specific MST Transforms**
   * Localize the installer by creating language-specific transforms.
9. **Add Environment Variables During MSI Install**
   * Add or modify system environment variables through the MSI.
10. **Create a Rollback Plan for Failed MSI Installation**
    * Ensure that all added files/registry entries are removed on failure.