

Starting a New LibreOffice Extension Project without LOEclipse-provided Skeleton Code

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(Est. Setup Time: 30 to 90 minutes, depending on human error and/or exigencies)

1. Get `libreoffice-starter-extension-master.zip` from <https://github.com/smehrbrodt/libreoffice-starter-extension> and unzip it to a workspace (e.g. Workspace_UNO)
2. Import the project from 'libreoffice-starter-extension-master' into Eclipse:
 - 2.1. `File > Import > Existing Projects into Workspace > Next button > Browse...`
 - 2.2. Navigate to 'libreoffice-starter-extension-master' and click the Open button
 - 2.3. Click the Finish button
3. Create LOEclipse framework sans skeleton code:
 - 3.1. Click the LOEclipse toolbar button (or select `New > Project... > LibreOffice > Extension project > Next`)
 - 3.2. Enter a 'Project name' sans spaces (e.g. 'MyExtension')
 - 3.3. Change the 'Root package' (e.g to 'net.mydomain.myextension')
 - 3.4. Make sure 'LibreOffice' and 'SDK' entries are set and appropriate
 - 3.5. If tests are not desired, click Next and uncheck 'Include base classes for tests'
 - 3.6. When done, click Next(s) to get to the last page and click Finish (or just click Finish).
 - 3.7. Close any external editor automatically opened to an empty implementation file
4. Copy code from 'libreoffice-starter-extension-master' to new project and modify it as needed:
 - 4.1. Copy `StarterProjectImpl.java` from 'libreoffice-starter-extension-master/source/org.libreoffice.example.comp' to 'source' in the analogous 'comp' package in new project.
 - 4.2. Add build, dist, and library folders to the new project root, each containing a `.gitkeep` file
 - 4.3. If example toolbar and dialog are needed:
 - 4.3.1. Copy package `org.libreoffice.example.dialog` to 'source' in the new project root
 - 4.3.2. Copy the dialog, images, and registry folders (and their contents) to the new project root
 - 4.3.2.1. **Manually edit** `registry/org/openoffice/Office/UI/WriterWindowState.xcu` to change `org.libreoffice.example.StarterProject` as needed.
 - 4.3.2.2. **Manually edit** `registry/org/openoffice/Office/Accelerators.xcu` and `registry/org/openoffice/Office/Addons.xcu` to change `org.libreoffice.example.StarterProject` as needed.
 - 4.3.3. **Manually edit** the new project `.idl` file **not** prefixed by 'X' (in the deepest folder under the project idl folder) to replace the `#include` line and service with those from `StarterProject.idl`, changing 'StarterProject' to the new project name

- 4.3.4. Delete the `.idl` file prefixed by 'X' (also in the deepest folder under the project idl folder)
- 4.4. If the helper classes are needed, copy package `org.libreoffice.example.helper` to 'source' in the new project root
- 4.5. Rename the copy of `StarterProjectImpl.java` (e.g. to `MyExtensionImpl.java`)
 - 4.5.1. `Refactor > Rename...`
 - 4.5.2. Enter 'New name' (e.g. `MyExtensionImpl`)
 - 4.5.3. Check all boxes
 - 4.5.4. Click 'Next'
 - 4.5.5. Click 'Next' again
 - 4.5.6. Review changes to be made
 - 4.5.7. Click 'Finish'
- 4.6. IF packages `org.libreoffice.example.dialog` and/or `org.libreoffice.example.helper` WERE copied in step 4.2.1
 - 4.6.1. Rename the copied packages to match new project (e.g. change `org.libreoffice.example` to `net.mydomain.myextension`)
 - 4.6.2. **Manually edit** `source/net.diffengine.myextension.helper/FileHelper.java` to change `"org.libreoffice.example.starterproject"` to match the new project (e.g. change `org.libreoffice.example.starterproject` to `net.mydomain.myextension.myextension`)
 - 4.6.3. **Manually edit** the new `...Impl.java` file to change `'m_serviceNames'` from `"org.libreoffice.example.StarterProject"` to match the new project
- 4.7. IF either of packages `org.libreoffice.example.dialog` or `org.libreoffice.example.helper` WAS NOT copied in step 4.2.1
 - 4.7.1. **Manually edit** the new `...Impl.java` file to comment out or delete unnecessary code referring to them.
5. Add extension info
 - 5.1. Add a description file with a description to be displayed in LibreOffice's Extension Manager (e.g. add a description folder containing a file `description_en.txt` containing the description)
 - 5.2. Add the description file to the "Description file" entry in `description.xml`
6. Add Package content
 - 6.1. Open `package.properties`
 - 6.2. Check resources to include in extension (e.g. description, dialog, images, and/or registry)
7. Finalize configuration
 - 7.1. Set up a Run Configuration of type "LibreOffice Application" to facilitate installation of the extension and automatic launch of LibreOffice
 - 7.2. If desired, uncheck `Project > Build Automatically` to facilitate generation of an extension `.oxt` file without launching LibreOffice