# How to build the HRE Main Window

# **Revision History**

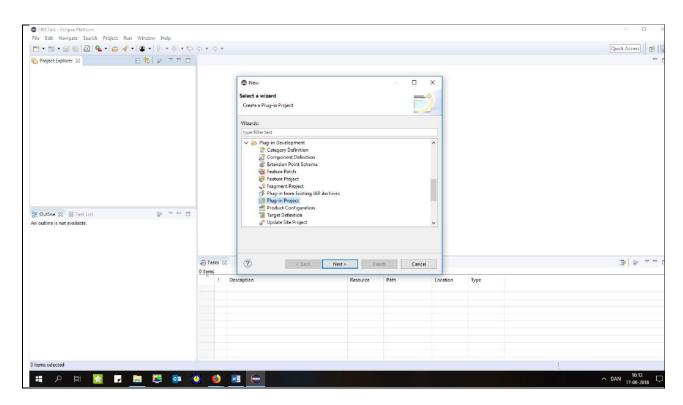
| 2018-06-17 | Michael Erichsen | Original draft  |
|------------|------------------|---|
| 2018-07-02 | Don Ferguson     | Added extra assistance notes at end, based on email of 27 June from Michael E |

HRE is an Eclipse e4 Rich Client Platform (RCP) application.

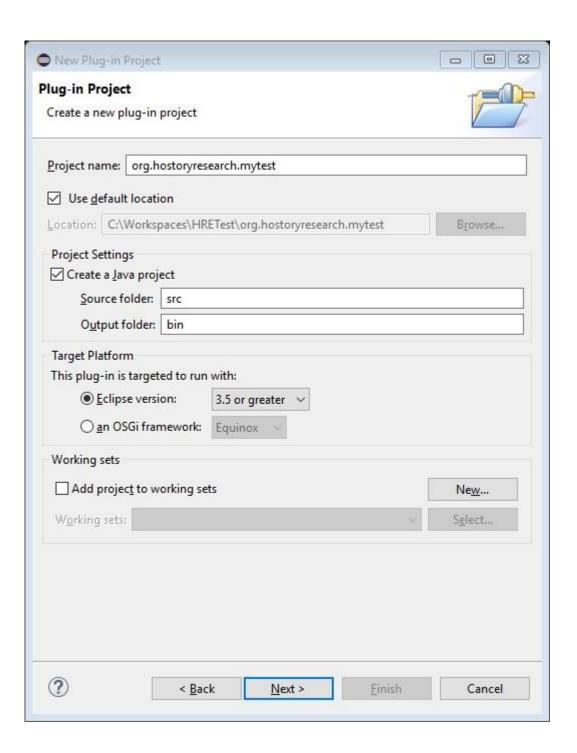
# **Tooling**

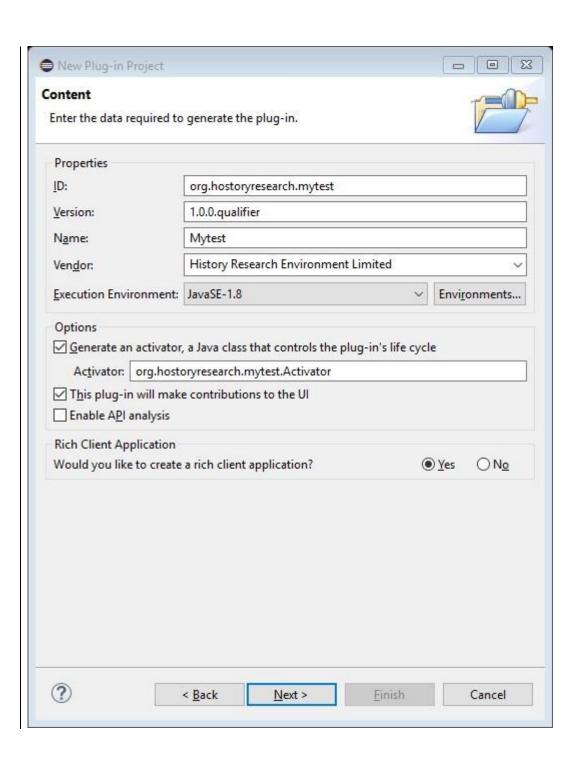
You need an Eclipse 'Workbench for RCP programmers' set up.

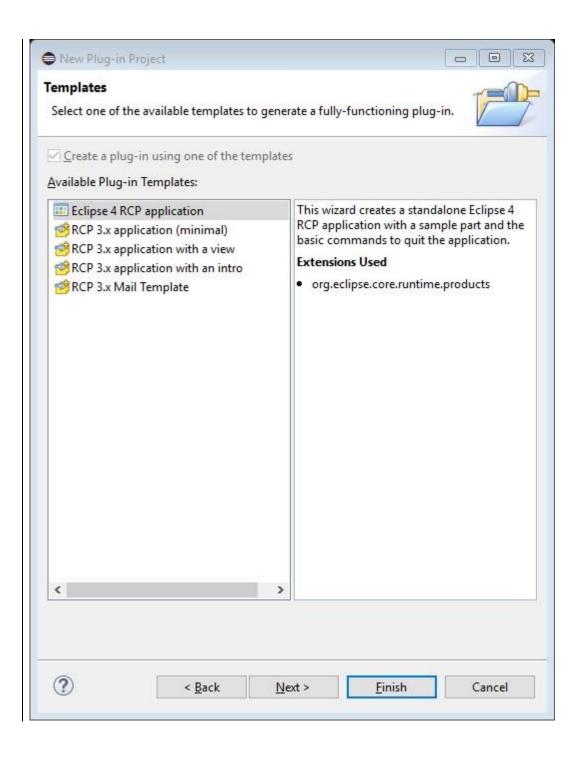
## Look and feel

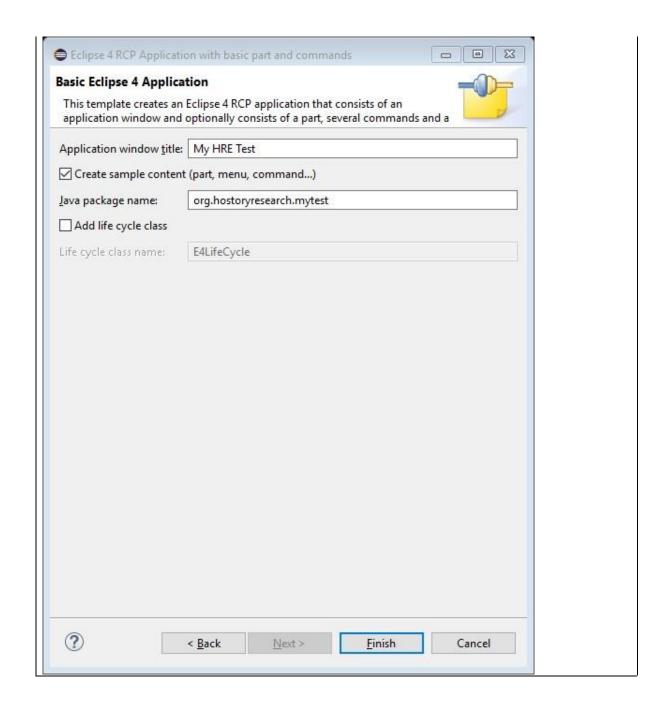


You can get to know the tool by building the default e4 RCP application:



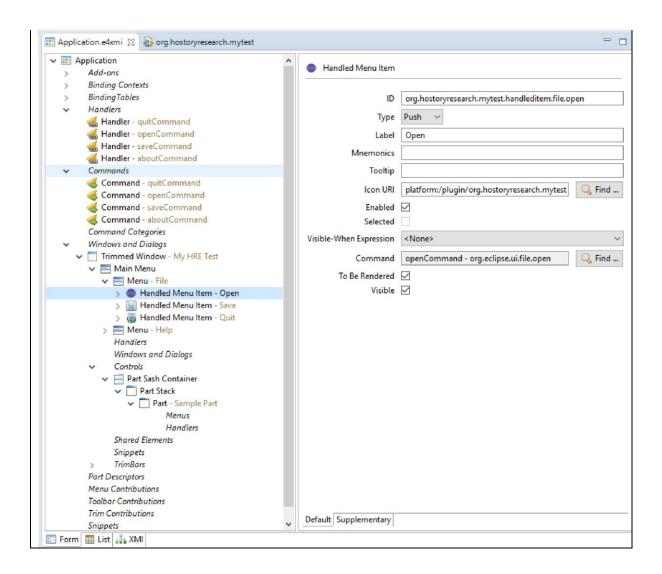




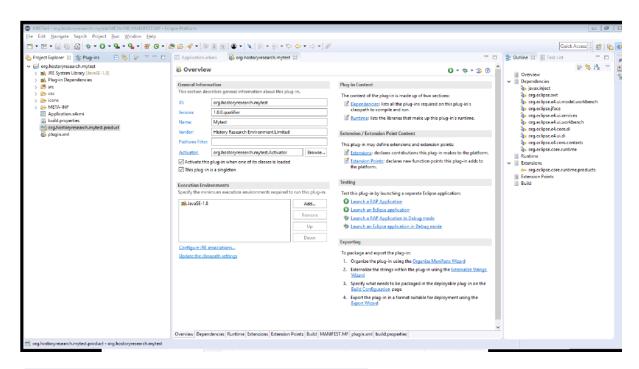


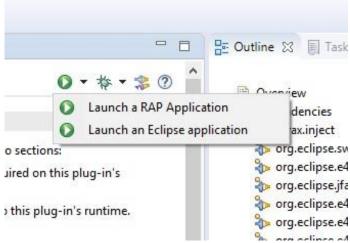
Two views are opened when clicking Finished.

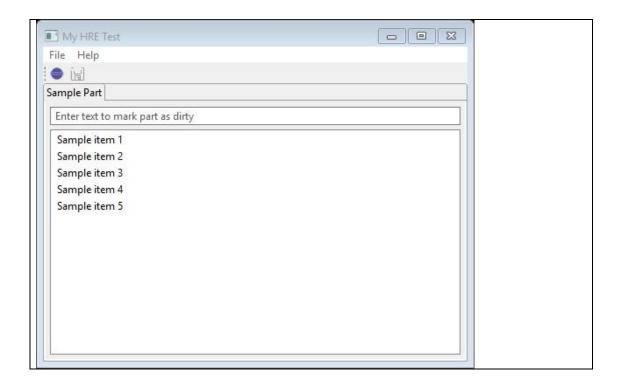
Application.e4xmi defines menus, perspectives, view parts etc. You can play around with this.



You can launch the Eclipse application from the product file, which is also opened -

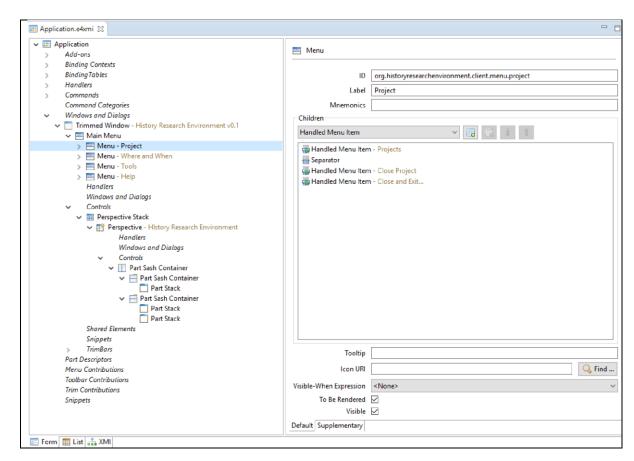






## The HRE Main Window

The main window has a hierarchy of perspective stack, perspective etc.:



None of the current view parts are visible here, as they are created dynamically by handler code.

#### **Extended Installation Checks**

Prerequisite: Eclipse for RCP installed.

Expand the releng (Release Engineering) folder. Expand the org.historyresearchenvironment.client.product folder. Open the org.historyresearchenvironment.client.product file.

Click the green "Run" arrow in the Product Configuration Editor and make sure that it starts an Eclipse application, not a RAP application.

If a "Validation" dialog opens with "The following problems were detected", we need to handle some required bundles. We will park that for now.

If you get a message dialog saying "Java Virtual Machine Launcher. Error: Could not create the Java virtual machine. Error: A fatal exception has occured. Program will exit", then we have a mismatch between Eclipse and Java versions.

## Do as follows:

- Close the message dialog.
- Select the run menu item in Eclipse and select "Run Configurations".

There will be a newly created configuration, probably called "org.historyresearchenvironment.client.product".

Open that for editing.

On the main tab select "Clear" and "Workspace" and unselect "Ask for confirmation before clearing" On the Arguments tab remove all VM arguments. They are only valid for Java 9, not Java 8. On the plug-ins tab, note the number of selected plug-ins, e.g. "75 of 1520 selected".

Click "Add required plug-ins" several times, until the number is constant. Click "Validate Plug-ins", which should reply "No problems were detected"

Click "Apply" Click "Run".

#### Read more

http://www.vogella.com/tutorials/eclipse.html