

02.04.01 How to build the HRE Main Window

2017-06-17	Michael Erichsen	Original draft
------------	------------------	----------------

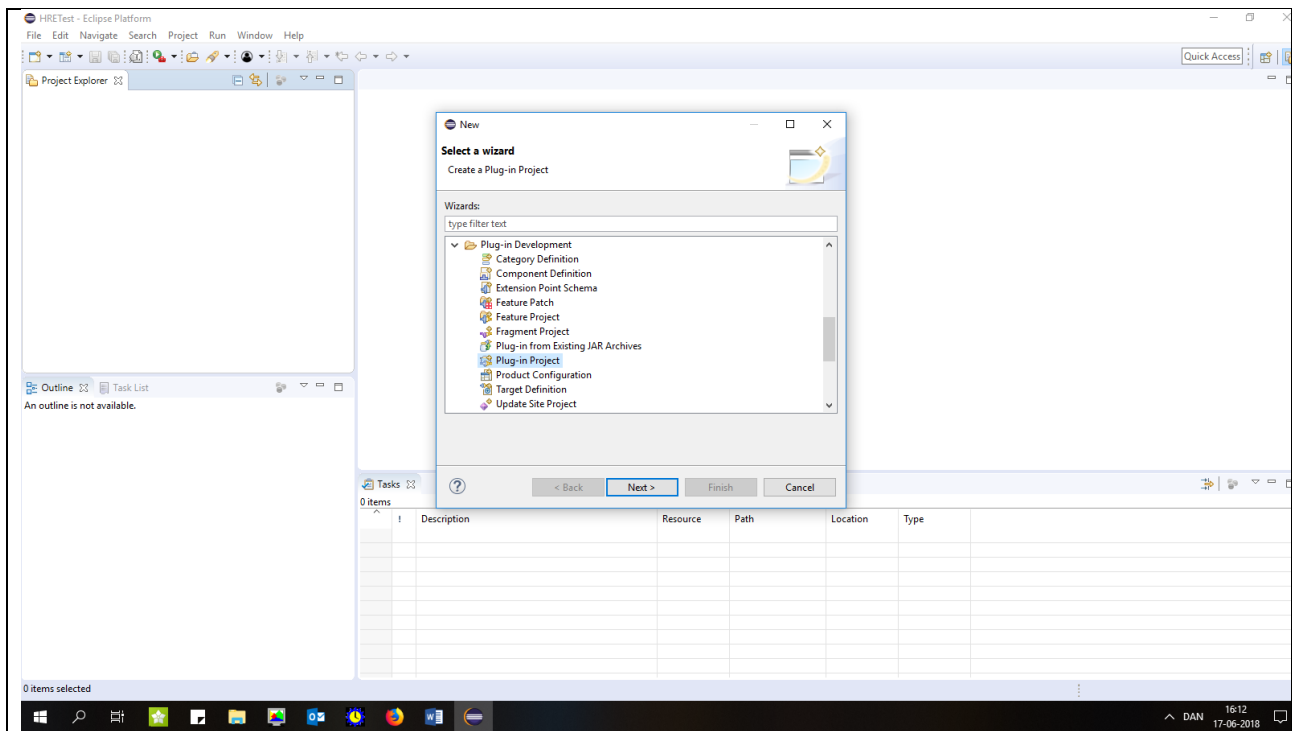
HRE is an Eclipse e4 Rich Client Platform (RCP) application.

Tooling

You need an Eclipse workbench for RCP programmers.

Look and feel

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



New Plug-in Project

Plug-in Project

Create a new plug-in project



Project name:

☒ Use default location

Location:

[Browse...](#)

Project Settings

☒ Create a Java project

Source folder:

Output folder:

Target Platform

This plug-in is targeted to run with:

☒ Eclipse version:

☐ an OSGi framework:

Working sets

☐ Add project to working sets

[New...](#)

Working sets:

[Select...](#)



< [Back](#)

[Next >](#)

[Finish](#)

[Cancel](#)

New Plug-in Project

Content

Enter the data required to generate the plug-in.



Properties

ID:	<input type="text" value="org.hostoryresearch.mytest"/>
Version:	<input type="text" value="1.0.0.qualifier"/>
Name:	<input type="text" value="Mytest"/>
Vendor:	<input type="text" value="History Research Environment Limited"/>
Execution Environment:	<input type="text" value="JavaSE-1.8"/> <input type="button" value="Environments..."/>

Options

<input checked="" type="checkbox"/> Generate an activator, a Java class that controls the plug-in's life cycle
Activator: <input type="text" value="org.hostoryresearch.mytest.Activator"/>
<input checked="" type="checkbox"/> This plug-in will make contributions to the UI
<input type="checkbox"/> Enable API analysis

Rich Client Application

Would you like to create a rich client application? ☒ Yes ☐ No



< Back

Next >

Finish

Cancel






Templates

Select one of the available templates to generate a fully-functioning plug-in.



☒ Create a plug-in using one of the templates

Available Plug-in Templates:

-  Eclipse 4 RCP application
-  RCP 3.x application (minimal)
-  RCP 3.x application with a view
-  RCP 3.x application with an intro
-  RCP 3.x Mail Template

This wizard creates a standalone Eclipse 4 RCP application with a sample part and the basic commands to quit the application.

Extensions Used

- org.eclipse.core.runtime.products



< Back

Next >

Finish

Cancel

Eclipse 4 RCP Application with basic part and commands

Basic Eclipse 4 Application

This template creates an Eclipse 4 RCP application that consists of an application window and optionally consists of a part, several commands and a

Application window title:

☒ Create sample content (part, menu, command...)

Java package name:

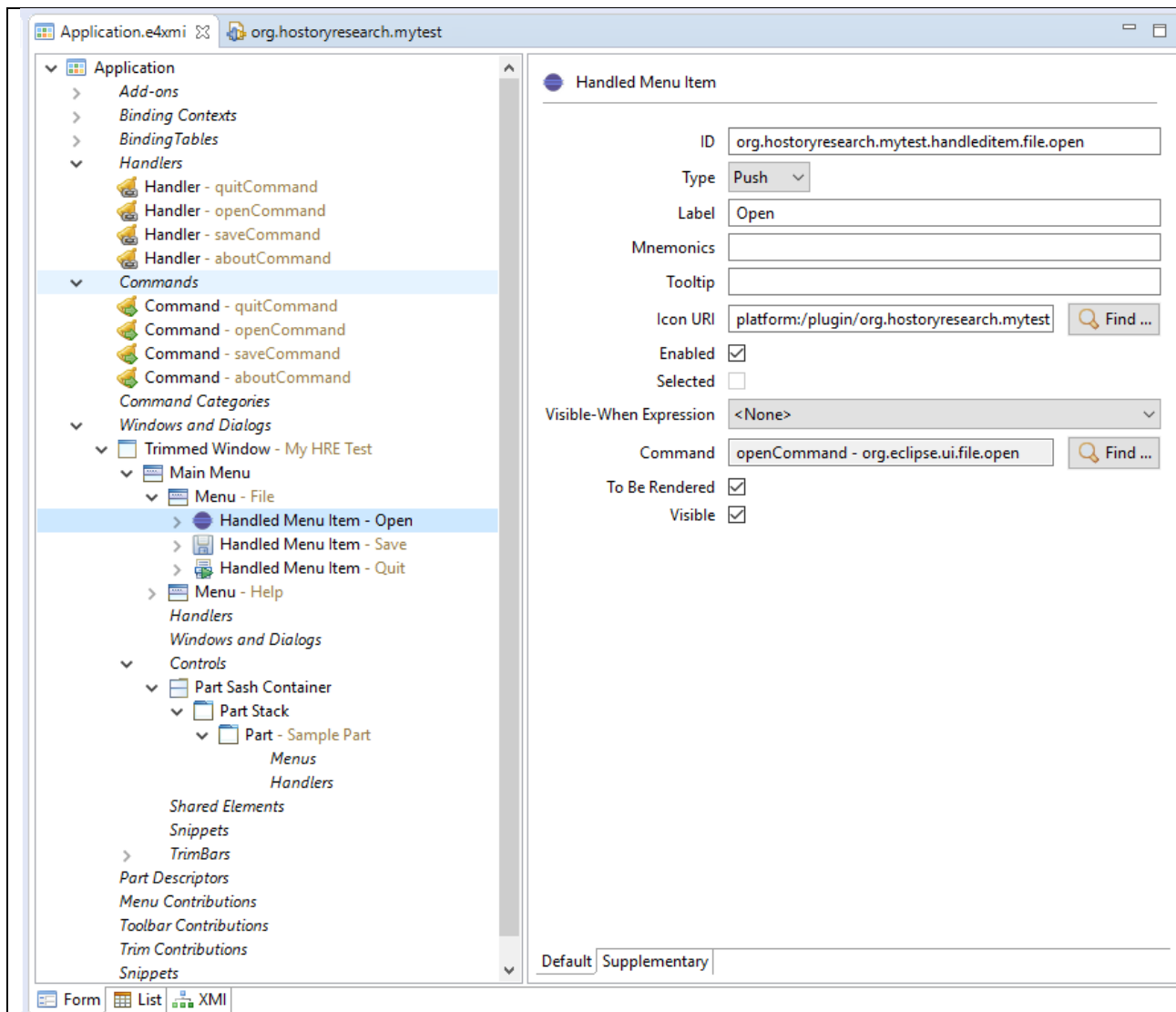
☐ Add life cycle class

Life cycle class name:

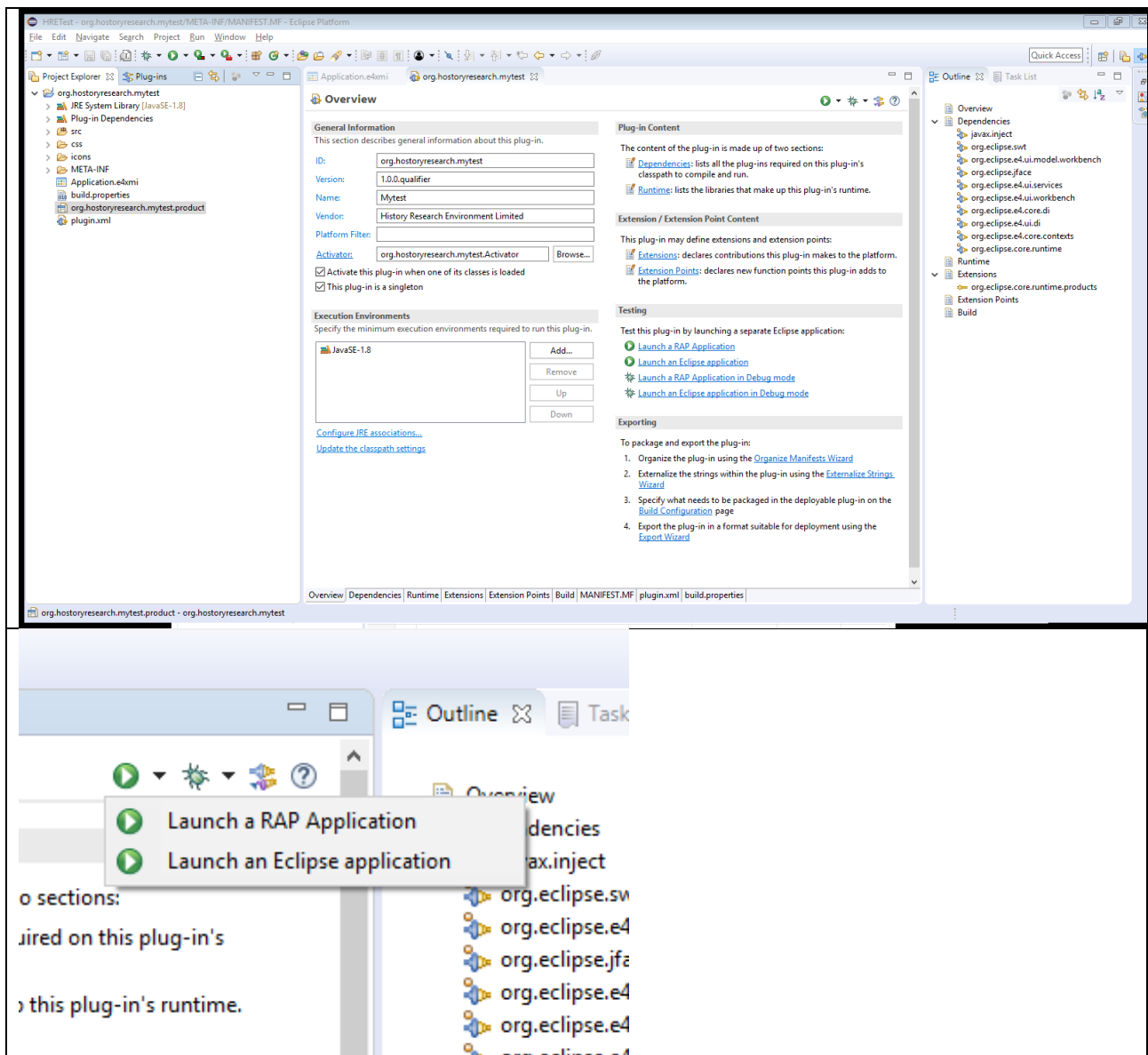
? < Back Next > Finish Cancel

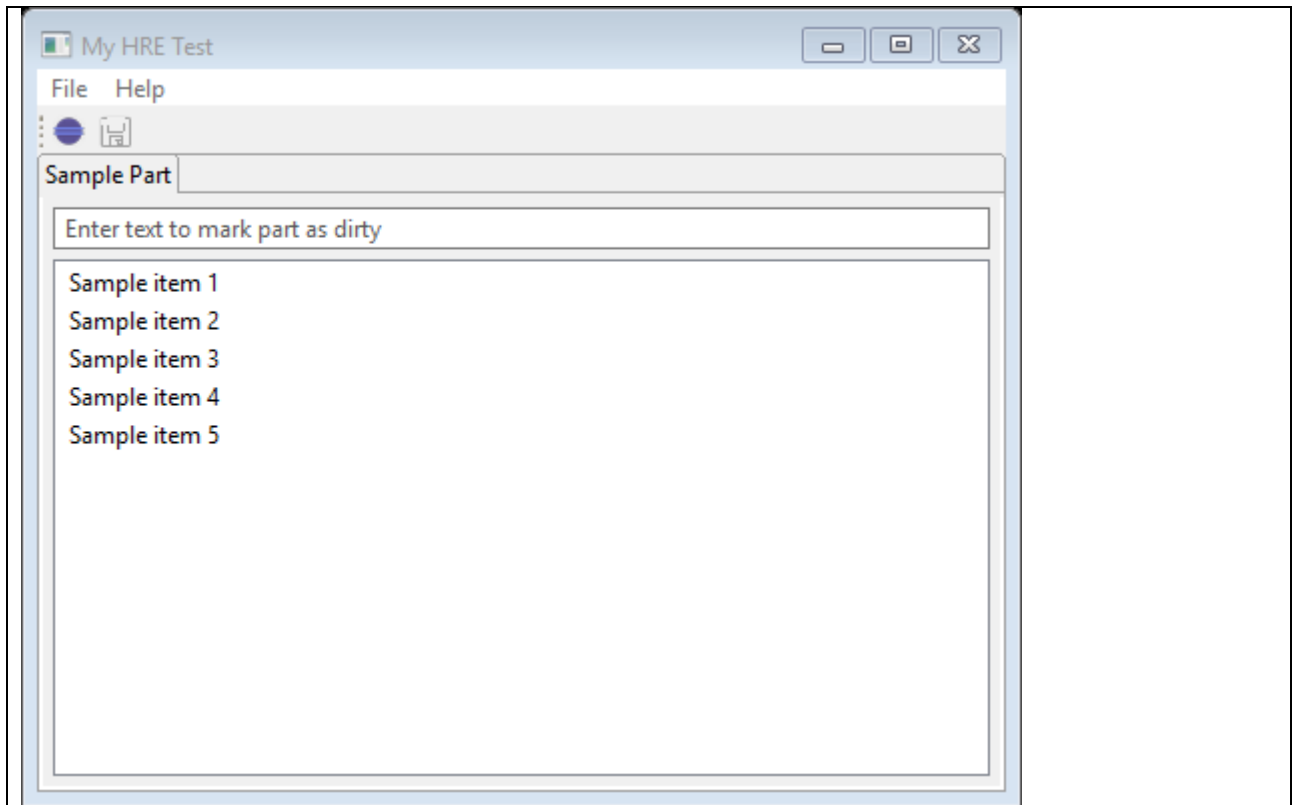
Two views are opened when clicking Finished.

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



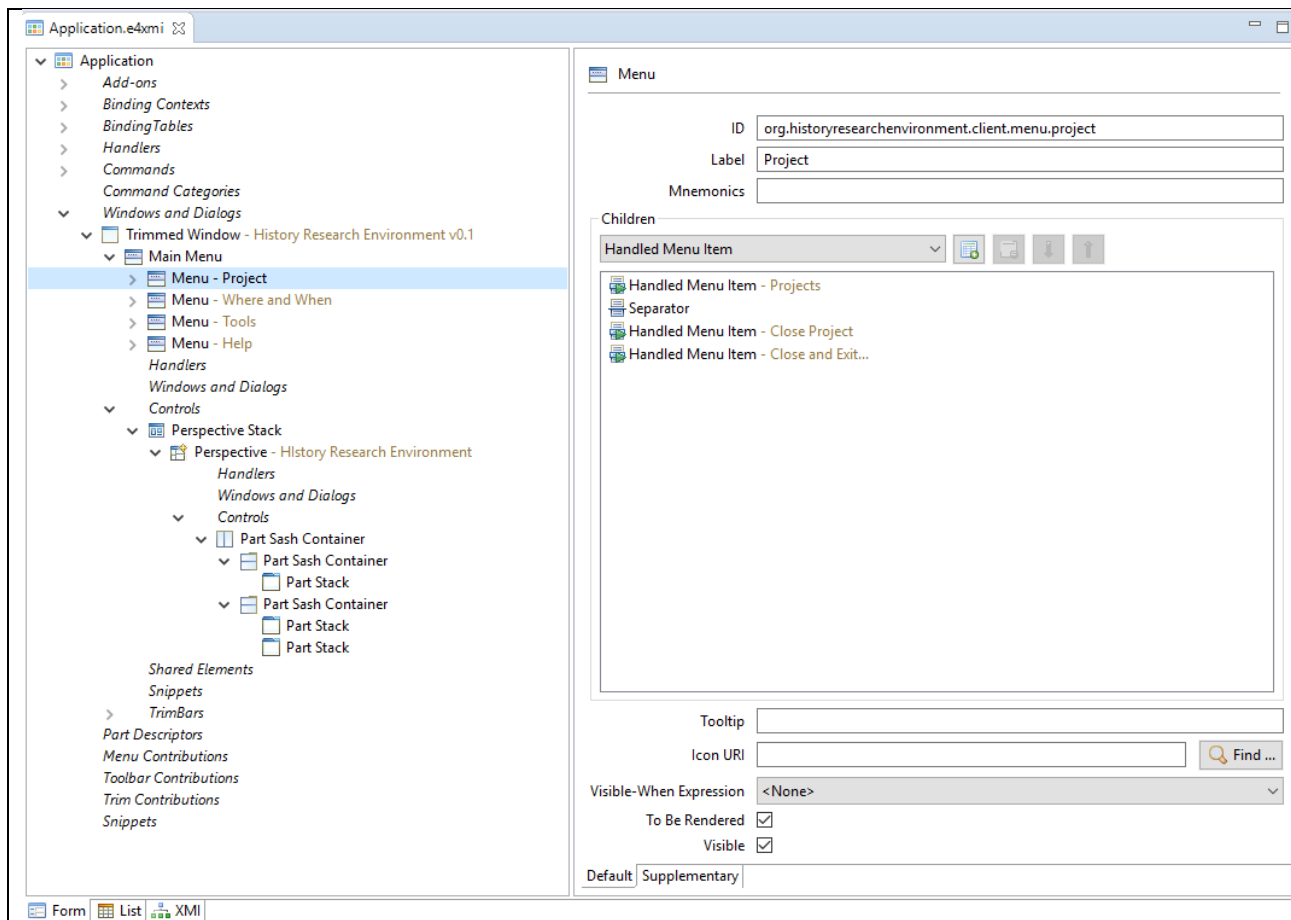
You can launch the Eclipse application from the product file, which is also opened:





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.

Read more

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