

Command And Handler – An Introduction

In this tutorial we concentrate on how to create a Command and Handler. Command and Handler are action on menubar, toolbar and context menu.

Creating a command

1. Contribute a new command by adding org.eclipse.ui.commands extension in the extensions tab. Right click on “org.eclipse.ui.commands” and create a new command. Give a command name and then click on “default handler” to create a handler class. The handler class should extend “org.eclipse.core.commands.AbstractHandler”. Give a unique id for your command (Can be your class name).

The screenshot shows the Eclipse IDE's 'All Extensions' and 'Extension Element Details' panels. The 'All Extensions' panel is on the left, showing a tree view of extensions. The 'org.eclipse.ui.commands' extension is selected, and a new command 'Open File (command)' is being added. The 'Extension Element Details' panel is on the right, showing the properties of the 'command' extension. The 'id*' field is set to 'org.ancit.apartment.ui.command1', and the 'name*' field is set to 'Open File'. Other fields like 'category', 'description', 'categoryId', 'defaultHandler', 'returnTypeId', and 'helpContextId' are empty.

The screenshot shows the 'New Java Class' dialog box. The 'Source folder' is set to 'org.ancit.apartment.ui/src', the 'Package' is 'org.ancit.apartment.ui.command', and the 'Name' is 'ApartmentOpenCommand'. The 'Modifiers' are set to 'public'. The 'Superclass' is set to 'org.eclipse.core.commands.AbstractHandler'. The 'Interfaces' field is empty.

- Having created the Command, now we need to display it on the MenuBar of eclipse. For doing the same we use a new extension point called as org.eclipse.ui.menus. Add org.eclipse.ui.menus extension in the extensions tab. Right click on the “org.eclipse.ui.menu” and create a new MenuContribution
- Provide the locationURI as “menu:org.eclipse.ui.main.menu”.

The screenshot shows the Eclipse IDE's 'All Extensions' and 'Extension Element Details' panels. In the 'All Extensions' panel, the 'org.eclipse.ui.menus' extension point is selected. In the 'Extension Element Details' panel, the 'locationURI' field is set to 'menu:org.eclipse.ui.main.menu'.

- Right click on “menu:org.eclipse.ui.main.menu(MenuContribution)” create a new menu. Provide a label then right click on menu, create a command and browse to select your command id created in step1.

The screenshot shows the Eclipse IDE's 'All Extensions' and 'Extension Element Details' panels. In the 'All Extensions' panel, the 'menu:org.eclipse.ui.main.menu' extension point is selected. In the 'Extension Element Details' panel, the 'commandId' field is set to 'nd.ApartmentOpenCommand'.

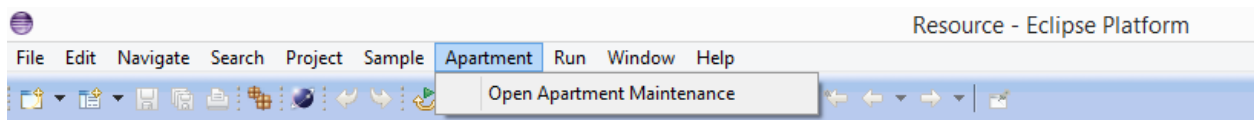
5. After completing Step 1 to Step 4, your plugin.xml should contain the following extensions as shown below

```

  • org.eclipse.ui.commands
    • Open Apartment Maintenance (command)
  • org.eclipse.ui.menus
    • menu:org.eclipse.ui.main.menu (menuContribution)
      • Apartment (menu)
        • org.ancit.apartment.ui.command.ApartmentOpenCommand (command)

```

6. Now right click on the plugin and run as eclipse application .



ABOUT ANCIT:

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