

Eclipse RCP and Plug-in development

Background

Most of us know **Eclipse** as an integrated development environment (IDE) for Java. On the flip side, there is lot more to Eclipse than “*just an IDE*” – it is a collection of core frameworks and services that are required to support a comprehensive tool integration platform, it is a flexible environment to experiment with new computer languages or extensions to existing languages, a platform to easily build and deliver integration tools and a great place to learn and explore.

Goals

Introduce Eclipse as a platform for developing Plug-ins and Rich Client Application's.

Audience

- Java developers looking to use of Eclipse for developing general GUI base applications
- Software architects interested in developing business applications
- Eclipse plug-in developers wanting to optimize their skills

Prerequisites

- Experience of developing applications using Java
- Experience using the Eclipse IDE is desirable

More info

- Course duration : 2 days
- Course structure : Instructor led with at-least 80% hands-on labs and tutorials
- Equipment : Participants supply their own computer with the latest Eclipse

Day 01 (First half)

- Introduction to Eclipse Rich Client Platform (RCP)
 - History, Benefits and Examples
 - Architecture of RCP Application
 - Plug-in based modularization
- Applications and Workbench
 - The workbench
 - Windowing : Window, Menu, Page, Perspective, View, Editor
- Hello World RCP
 - Creating your first RCP application
 - Launching the application
 - Workbench advisor classes

Day 01 (Second half)

- Introduction to SWT
 - SWT widgets/Controls
 - Basic structure of SWT applications
- Hello World SWT application

- Basic structure of SWT applications
- SWT Layouts
- Using SWT Layout managers
- JFace UI framework
 - JFace viewers
 - Introduction to Structured viewers
 - Using JFace Tree Viewer
 - Content and Label providers
 - Tables and JFace Table Viewer

Day 02 (First half)

- Views and Perspectives
 - Introduction to Extension points
 - Adding Views
 - Adding JFace Viewers to the Views
 - Adding Perspectives
 - Arranging views within perspectives
- Action and Commands
 - Contributing – Menus, Toolbar actions, Popup menu
 - Command framework
 - Contributing – Menus, Toolbar actions, Popup menu
 - Conditional Enablement and visibility
 - Reusing existing Workbench commands

Day 02 (Second half)

- JFace Dialogs and Wizards
 - Creating JFace Dialogs
 - Reusing Dialogs
 - Contributing Wizards
 - Implementing Wizard and Wizard pages
 - Customizing a Wizard
 - Defining Wizard extension
- Progress monitors for long running applications
- Branding and packaging
 - Customizing your application with product branding
 - Packaging an application with features
 - Deploying your RCP application

Trainer: Neeraj Bhusare (8+ years of experience in developing Eclipse based applications)

Profile: https://www.linkedin.com/profile/view?id=22484094&trk=nav_responsive_tab_profile

Clients: Nokia, Robert Bosch, TCS, Tata Elxsi, KPIT, Golden Source

Also conducted Public workshops in Pune, Bangalore