Updated 07/26/2023

Sign up

ExtJS training

3 days (21 hours)

Presentation

Ext is a JavaScript library for building interactive web applications, using powerful graphical components. It was originally an extension to Yahoo's YUI JavaScript library. Ext can now be used with the Prototype and jQuery libraries, or on its own. Ext provides a number of high-quality visual components, including advanced form fields, trees, tables, menu and toolbars, tabs and dialog boxes. Everything you need for a modern website! The Ext JS 7.0 Modern toolbox supports: drag & drop, line editor and collapsible group for grids, accordion layout, form group, breadcrumb toolbar and drag & drop for tree view. A localization package has also been added to Modern Toolkit. Material Theme is now available for the Classic Toolkit. In addition, Ext JS 7.0 has been updated to support SVG-based Font Awesome 5+. The course will use the latest stable version of the project, Ext JS 7.3.

Objectives

- Designing an ExtJS application with MVC and MVVM
- Creating the skeleton of an ExtJS application with Sencha Cmd
- Mastering the data access layer
- Handling multiple containers
- Handling multiple layouts
- Mastering the concept of the Extjs config object
- Mastering DOM ExtJS management
- Mastering ExtJS event management
- Implementing Template and XTemplate ExtJS
- Creating Ajax calls with XML / JSON data transport
- Master the concepts of container and layout
- Understanding the xtype
- Creating and validating Ajax forms
- Mastering the GridPanel data component

Target audience

- Web developers, project managers, IT specialists.

Prerequisites

- Knowledge of the Web (HTML5, CSS3, JavaScript)

Ext JS training program

Introducing ExtJS

- Introduction
- Framework Ext JS 6.7 & 7.0
- Writing code
- Executing code
- Debugging code
- Documentation
- Architecting an application

ExtJS fundamentals

- Application structure
- Object instantiation
- DOM operation
- Define a Class
- Inherit a Class
- Dynamic loading

Basic ExtJS components

- Integration of scripts and CSS
- Basic classes
- Components
- Containers & Layouts
- Events
- Panels, Toolbars and Buttons
- Understanding Layouts
- Windows objects
- Useful methods
- Form Groups: Form groups to easily group together a collection of checkboxes or radio buttons to support actions such as customization or layout validation at group level.

- Breadcrumb Toolbar: presents hierarchical information in breadcrumb format.
- Grid Updates : Grid updates that support drag-and-drop editing of rows, so that users can easily move, rearrange and insert content in a row or cell.
- Grid Collapsible Groups: for easy group layout and visualization information.
- Drag-and-Drop in TreeView: Drag-and-drop in TreeView plugin that lets users easily move and rearrange tree menus.

Architectures

- Introduction
- V VC VM
- ViewController
- ViewModel
- Databinding
- Dependencies
- Customized events
- Modular classrooms

Sencha Cmd

- Introduction to Sencha Cmd
- Using Sencha Cmd with Ext JS
- Workspaces
- Packages

Data management

- Introduction
- Models
- Fields
- Validations
- Associations
- Proxies
- Blinds
- Sending and receiving data
- The ? Forms ?

Data-oriented graphics components

- Template and Views
- Les Grilles

- Widgets
- Trees (and Ariadne's Thread)
- Forms
- Graphics

Advanced concepts

- Roads
- Responsive Design
- Themes
- Production start-up
- Internationalization
- Performance

New features introduced with versions 6 & 7

- Toolkits
- Pivot Grid
- Tree List
- Responsive Column Layout
- Chart Updates
- Spreadsheet selection model
- Improved accessibility
- Triton Theme
- Sencha Inspector
- JetBrains Plugin
- Promises
- Grid Exporter
- Fashion
- To find out more :
  - ExtReact
  - ExtAngular
  - Sencha Test & Themer

Siesta Test - Complementary module (+1 day in-company only)

- Siesta is a JavaScript module and user interface (UI) testing tool that can perform tests in web pages or Node.js processes.
- Siesta features a powerful event recorder and player, as well as a comprehensive scalable automation with support for testing in the cloud.
- Simulation, User action recorder & player.
- Scalable automation package.
- Integration into your continuous integration (CI) workflow.

Angular Advanced Training

Angular training

Vue.js training

Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.