

Course code: **EXTJS**

Course title: ExtJS 4 – Effective development of Web applications

Days: 3

Description:

Course intended for:

The training is aimed at developers, intending to acquire knowledge on development of scalable Web applications, where a large functional part has been transferred to the client layer (Web browser).

Course objective:

The training objective is to get the participants familiar with the theoretical and practical issues of creation of Web applications using the ExtJS library.

The training participants will learn to:

- Use and extend the ExtJS library
- Effectively use the native components and put them together as a whole
- Design effective communication between components and back-end of the Web application

After the training, the participants will be able to develop scalable Web applications on their own using ExtJS.

Course parameters:

3 days 8 hours each

Course curriculum:

- 1. Introduction to ExtJS technology
- 2. Installation and initial configuration of ExtJS



20	8 E2
3.	Programming with ExtJS – object oriented programming (OOP)
	Class system
	 Mixins
	Class loading
	 Statics
4.	Application hierarchy - Components, Containers, Events
5.	Structure, configuration and use of components
	∘ Panel
	 TabPanel
	 Window
	∘ Grid
	∘ Tree
	∘ Menu
	 Toolbar
6.	Organization of containers and components
	 Container Layouts (Anchor, Form, Absolute, Fit, Accordion, Card, Column, HBox, VBox, Table, Border)
	 Component Layouts (Dock, Tool, Field)
	Component embedding
	CSS Style
7.	Data in application
	Data model development (Model)
	Data source development (Store)
	Data reading (JsonReader, XmlReader)



- Data writing (JsonWriter, XmlWriter)
- Local data (LocalStorage, SessionStorage, Memory)
- Remote data (Ajax, Rest, JsonP)
- Sorting
- Filtering

8. Forms

- Form Panel
- Fields
- ComboBox
- Editors (HTML, Text)
- Validation
- · Communication with server, data saving

9. Grids

- Data sources (Store)
- Columns
- Grouping, GroupingSummary
- Summary
- Edition (CellEditing, RowEditing)

10. Trees

- Data sources (Store)
- Nodes (NodeInterface)
- Tree management (Drag and Drop)
- Sorting



- Tree grid (TreeGrid)
- 11. Application style
 - Use of motifs (Classic, Gray, Neptune)
 - Development of own motifs (Sass and Compass)
- 12. Development of applications in MVC architecture

Combining of components together – building of a complete application.