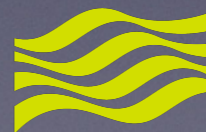# OpenWIS v4

Skills and Training

Met Office

Toulouse, 20-23 March 2017

Front-end / UI skills

Skill	Level	Comments
HTML / CSS	Beginner	
Vanilla JS	Beginner	Some Vanilla JS exists
jQuery	Beginner	Some jQuery exists
Angular JS	Intermediate/ Advanced	- CGN's UI is built using Angular JS - Extension/Reusability of existing components - Keep using for homogeneity
XSLT	Beginner	May be required in order to get a clear picture of how pages are rendered in general

Back-end skills

Skill	Level	Comments
Spring	Intermediate	Most (if not all) server components are wired using Spring
Spring-Security	Beginner / Intermediate	Some experience required If intending to configure SSO
Spring REST / SOAP Services	Beginner	- REST exposed to Angular JS - SOAP for v3 ←→ v4 communication
JPA / Spring-JPA	Beginner	

Other skills

Skill	Level	Comments
XML	Beginner	- Xml-based component configuration
Maven	Intermediate	- Multi-application multi-module build - Maven plugins such as shade - War overlay
Wro4j	Beginner	Part of the build process. May be required in order to get an understanding of how web resources are added to the application
Databases	Intermediate	Supports multiple databases: - DB2 - Oracle - PostgreSQL - H2

How to get started

Technical explanation of the process on GitHub:

https://github.com/OpenWIS/openwis4/wiki/
Developing%20OpenWIS%20v4%20functionality

A series of tutorials are available on GitHub:

https://github.com/OpenWIS/openwis4/wiki/Developer-Documentation-And-Examples

Add HTML content

Add a Menu item

Add an Angular element

Change existing Angular element functionality

End to End example

How to get started

Technical workshops & hands-on sessions can be delivered via WebEx.