

Training

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Training

INTRODUCTION

About

In order to enable your institution to acquire in-house DSpace Development expertise, or to smoothen the learning curve for your developers, @mire offers an on site “DSpace Manakin Developer Training Program”.

In order to attain a high level of satisfaction from course participants, @mire provides an *interactive training program*, aimed at a *low number of course participants*.

Preferred Participant Profile

DSpace administrator able to install and run DSpace, and with notions of Java programming.

Outcome

The participant gains conceptual and practical knowledge of the Manakin XMLUI, in order to develop and maintain user interface customizations. Configuring and customizing DSpace: Item Submissions, import and export functionality, OAI-PMH Crosswalks.

Pricing

The pricing of this program depends on the country where the training will take place. For groups up to five developers, training can also be provided at the @mire premises in Leuven, Belgium. Contact info@atmire.com for a proposal and planning.

DSPACE DEVELOPER TRAINING PROGRAM

1. Introduction to DSpace Development

This module provides the participant with the basic methodology for implementing DSpace customizations.

- DSpace source: Code structure. Implementation best practices. Modular, maintainable customizations.
- Maven: Maven Basics, DSpace Maven Modules structure. Adding Dependencies. ...
- Setting up DSpace in an IDE

2. The Manakin dependencies

This module will focus on the basic prerequisite technologies related to DSpace XMLUI development.

The module elaborates on the following topics:

- XML Basics: What is XML? XML Namespaces. XML Schema.
- XPath: What is XPath? XPath in XSLT Terminology. Path Expressions & Standard Functions. Exercises.
- XSLT: What is XSLT? XSLT and XPath. XSL Transformations. Exercises.
- Cocoon Basics: Pipelines & Components. Sitemaps.

3. Manakin architecture

This module will focus on providing a fundamental understanding of the underlying XMLUI building blocks: DRI schema, Wing-based transformers, Themes & Aspects.

The module includes the following topics:

- Introduction: Introduction to DSpace architecture

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- Digital Repository Interface: Introduction. Purpose. Structure. Localization & i18n.
- XMLUI Architecture Overview: Aspects. Merging DRI Documents. Themes. Processing Order. Configuration. METS Metadata Representation. Cocoon sitemap
- Reference.

4. Customizing Manakin pt 1

In this module the participant will gain hands-on experience in customizing the top two tiers in the XMLUI: Style tier (HTML/CSS/i18n) & Themes tier (XML/XSLT).

The module elaborates on the following topics:

- HTML/CSS style Tier: Creating your own Style. Installing your theme. Exercises.
- XML/XSL Theme Tier: Theme Overview. Reusing Base Theme Components. Base XSL library. Base i18n. Exercises.

5. Customizing Manakin pt 2

This module will elaborate on hands-on experience in more advanced Manakin customizations in the third tier in the XMLUI: Java/Cocoon tier (customizing aspects).

The module elaborates on the following topics:

- Java/Cocoon development Tier: Aspect Oriented Programming. Manakin Aspects. Example Aspect.
- Exercises: Enabling/Disabling existing aspects. Editing existing aspects. Adding a new page to an aspect.

6. Customizing the DSpace Item Submission

This module will focus on configuration of the DSpace Submission Workflow in the XMLUI.

The module includes the following topics:

- Submission Input Forms: Manual Item Submission. Metadata Input. Configuring input-forms.xml. dspace.cfg. Configuring the File Upload step. Exercises.
- Submission Steps: Submission Stages. item-submission.xml. Exercises.
- Configuring Workflow: Workflow Steps. Workflow Roles.

7. Overview of import and export functionality

In this module an overview of and hands-on experience with the DSpace batch import and export functionality is provided.

The module elaborates on the following topics:

- Using DSpace Import Tool: Command line tools. DSpace Archive Directory. Import Command. Exercises
- DSpace package ingestion/dissemination: Command line tools. Ingesting. Disseminating. Exercises.

8. OAI-PMH: Configuring & Implementing Crosswalks

This module will provide a thorough insight in the OAI protocol for metadata harvesting, how OAI-PMH is integrated in the DSpace architecture and hands-on experience with implementing Crosswalks.

The module elaborates on the following topics:

- OAI Protocol for Metadata Harvesting: Introduction. Terminology. Protocol. Requests and Responses.

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- OAI-PMH in DSpace: OAI-PMH in the DSpace Architecture. Crosswalk Implementations (Java Dissemination Crosswalks, XSLT-based crosswalks, Java OAI-Cat Crosswalks). Exercises

9. Statistics: configuration and customization

This training module will provide insight in the Statistics module in DSpace version 1.6.

The training module elaborates on the following topics:

- What are Usage Events? How to do the Initial Configuration of the statistics module
- How are Statistics Displayed in xmlui? How are Usage Events Logged in Solr?

SCHEDULE

DAY 1		
09:00-10:15	Introduction to DSpace Development	presentation
10:15-10:30	<i>morning break</i>	
10:30-12:30	The Manakin dependencies	hands-on
12:30-13:30	<i>lunch break</i>	
13:30-15:00	Manakin architecture (1/2)	presentation
15:00-15:15	<i>afternoon break</i>	
15:15-17:15	Manakin architecture (2/2)	presentation

DAY 2		
09:00-10:15	Customizing Manakin pt 1	hands-on
10:15-10:30	<i>morning break</i>	
10:30-12:30	Customizing Manakin pt 1	hands-on
12:30-13:30	<i>lunch break</i>	
13:30-15:00	Customizing Manakin pt 2	hands-on
15:00-15:15	<i>afternoon break</i>	
15:15-17:15	Customizing Manakin pt 2	hands-on

DAY 3		
09:00-10:15	Configuring DSpace Item Submissions	presentation
10:15-10:30	<i>morning break</i>	
10:30-12:30	Overview of import and export functionality	hands-on
12:30-13:30	<i>lunch break</i>	
13:30-15:00	OAI-PMH: Configuring & Implementing Crosswalks	presentation
15:00-15:15	<i>afternoon break</i>	
15:15-17:15	Statistics: configuration and customization	hands-on

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