

MINT MAPPING TOOL
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Overview

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- MINT Mapping Tool
 - User Administration
 - Metadata Import
 - Mappings
 - Transformation
 - Reports

MINT Mapping Tool

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- Provides users the ability to perform a mapping of their own metadata schemas to reference domain models (In our case EDM)
- Follows a typical web based architecture
- It was developed for ATHENA, but it is currently used for EUScreenXL, Europeana Fashion, Europeana Photography, CARARE, Judaica, ECLAP, DCA, Linked Heritage and other Europeana Aggregation projects

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User Administration

MINT2 – Instance for Sounds

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- <http://mint-projects.image.ntua.gr/sounds/>
- Click on “I want to register”

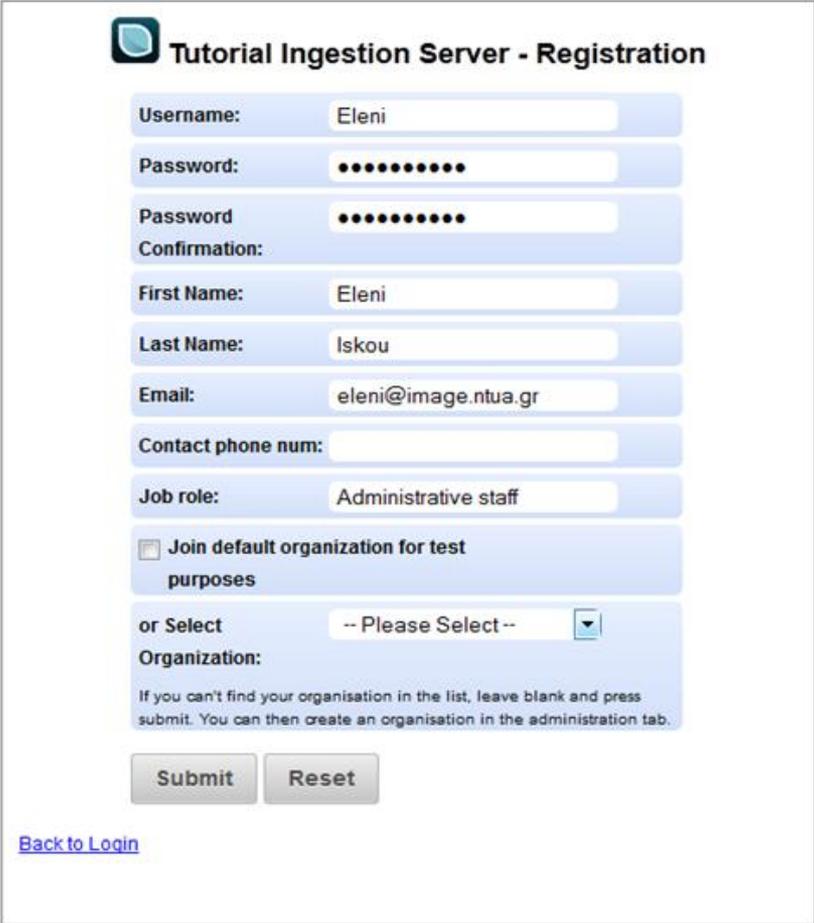


The screenshot shows a login interface for the MINT Ingestion Server - Sounds. At the top left is a logo consisting of a blue square with a white leaf-like shape inside. To the right of the logo is the text "MINT Ingestion Server - Sounds". Below this, there are two input fields: "Username:" and "Password:". Underneath the input fields are two buttons: "Submit" and "Reset". Below the buttons is a link that says "I want to register" with a purple underline. At the bottom of the form is another link that says "I forgot my login/password" with a blue underline.

User Registration

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- Fill in the form and click on “Submit”



Tutorial Ingestion Server - Registration

Username: Eleni

Password: ●●●●●●●●

Password Confirmation: ●●●●●●●●

First Name: Eleni

Last Name: Iskou

Email: eleni@image.ntua.gr

Contact phone num:

Job role: Administrative staff

Join default organization for test purposes

or Select -- Please Select --

Organization:

If you can't find your organisation in the list, leave blank and press submit. You can then create an organisation in the administration tab.

Submit Reset

[Back to Login](#)

Exercise 1 - Create new user

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- Create a new user with the following characteristics:
 - Username: name_surname
 - E.g. Username
 - The new user is not related to a specific organization

Create new organization

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The screenshot displays the MINT Home Administration area. The left sidebar contains a navigation menu with the following items: My workspace, My account, Administration (highlighted), Locks, Data reports, and Data statistics. Below the menu are sections for 'Recent mappings' and 'Recent annotations'. The main content area is titled 'Administration area' and includes a breadcrumb 'Create Organization'. It features a 'Manage users and organizations:' section with a prominent blue button labeled 'Create new organization'. Below this are sections for 'Users' (showing user 'Eleni Iskou') and 'Organizations' (displaying 'No organizations!').

Create new organization (Cont.)

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- Fill in the form and click on “Submit”

The screenshot displays a web application interface with three main panels. The left panel, titled 'MINT Home', contains a navigation menu with items like 'My workspace', 'My account', 'Administration', 'Locks', 'Data reports', and 'Data statistics'. The middle panel, 'Administration area', shows 'Manage users and organizations' with a 'Create new organization' button and a 'Users' section. The right panel, 'Create Organization', contains a form with the following fields: Country (Greece), English name (PANORAMA LABORATORY), Name (PANORAMA LABORATORY), Organization acronym (PL), Type (Other), Address (Athenas street), Organization url (http://www.panoramalab.gr), Organization description (Image analysis), Select parent organization (No parent), and Primary contact user (Eleni). A 'Submit' button is located at the bottom of the form.

Country:	Greece
English name:	PANORAMA LABORATORY
Name:	PANORAMA LABORATORY
Organization acronym:	PL
Type:	Other
Address:	Athenas street
Organization url:	http://www.panoramalab.gr
Organization description:	Image analysis
Select parent organization:	= No parent =
Primary contact user:	Eleni

Submit **Reset**

Exercise 2 - Create new organization

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- Create a new organization with the following characteristics:
 - Country: your country
 - English name: name_surname_org
 - E.g. Myorganization
 - Parent Organization: none (no parent)
 - Primary contact user: yourself

Create children organizations

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- Create a new organization and this time set the parent organisation

The screenshot displays the MINT Home administration interface. The left sidebar contains navigation options: MINT Home, My workspace, My account, Administration (selected), Locks, Data reports, Data statistics, Recent mappings, and Recent annotations. The main content area is divided into two panes. The left pane, titled 'Administration area', shows 'Manage users and organizations' with options for 'Create new organization' (selected), 'Create new user', and 'Users' (listing Eleni Iskou). Below this is the 'Organizations' section, listing 'PANORAMA LABORATORY'. The right pane, titled 'Create Organization', contains a form with the following fields: Country (Greece), English name (Image Laboratory), Name (Επιστημολογικό Εμβόλιον), Organization acronym (IL), Type (Other), Address (Ikon Polytechniou), Organization url, Organization description (Image analysis), Parent organization (PANORAMA LABORATO), and Primary contact user (Eleni). A 'Submit' button is located at the bottom of the form.

Exercise 3 – Create sub-organization

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- Create a new organization with the following characteristics:
 - Country: your country
 - English name: name_surname_org2
 - E.g. my2ndorganization
 - Parent Organization: Myorganization
 - Primary contact user: yourself

Create new user for Parent organization

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The screenshot displays the MINT Home Administration area. The left sidebar contains navigation options: MINT Home, My workspace, My account, Administration (highlighted), Locks, Data reports, and Data statistics. Below these are sections for Recent mappings and Recent annotations. The main content area is titled 'Administration area' and includes a breadcrumb 'Create user'. It features a 'Manage users and organizations' section with 'Create new organization' and 'Create new user' (highlighted) buttons. A 'Filter by Organization' dropdown is set to '-- All my organizations --'. Below this are two sections: 'Users' with a list item 'Eleni Iskou' and 'Organizations' with list items 'PANORAMA LABORATORY' and 'Image Laboratory'. Both sections include 'Prev', '1', and 'Next' navigation buttons.

Create new user

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- Fill in the form and click on “Submit”

The screenshot displays the MINT Home Administration area with the 'Create user' form open. The interface is divided into three main sections: a left sidebar, a central content area, and a right-hand form area.

Left Sidebar (Navigation):

- MINT Home (with description: MINT services compose a web based platform designed and developed to facilitate aggregation initiatives for cultural heritage content and metadata in Europe...)
- My workspace
- My account
- Administration** (selected)
- Locks
- Data reports
- Data statistics
- Recent mappings
- Recent annotations

Central Content Area (Administration area):

- Manage users and organizations:
- Create new organization
- Create new user** (highlighted)
- Filter by Organization: -- All my organizations --
- Users** (with user list):
 - Eleni Iskou
- Organizations** (with organization list):
 - PANORAMA LABORATORY
 - Image Laboratory

Right-hand Form Area (Create user):

- Username: Peter Pan
- Password:
- Password Confirmation:
- First Name: Peter
- Last Name: Pan
- Email: petenpan@gmail.com
- Contact phone num: [empty]
- Job role: Researcher
- Select Organization: PANORAMA LABORATORY
- System role: annotator, publisher
- Notify user by email for account creation
- Submit** **Reset**

Exercise 4 - Create new user from the administration panel

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- From the administration panel, create a new user with the following characteristics:
 - Username: name_surname2
 - E.g. 2nduser
 - The new user is related to the organization name_surname_org
 - E.g. Myorganization
 - The new user has the role of Data Viewer

User registration under organization (children organization)

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- <http://mint-projects.image.ntua.gr/sounds/>
- Click on “I want to register”



 **MINT Ingestion Server - Sounds**

Username:

Password:

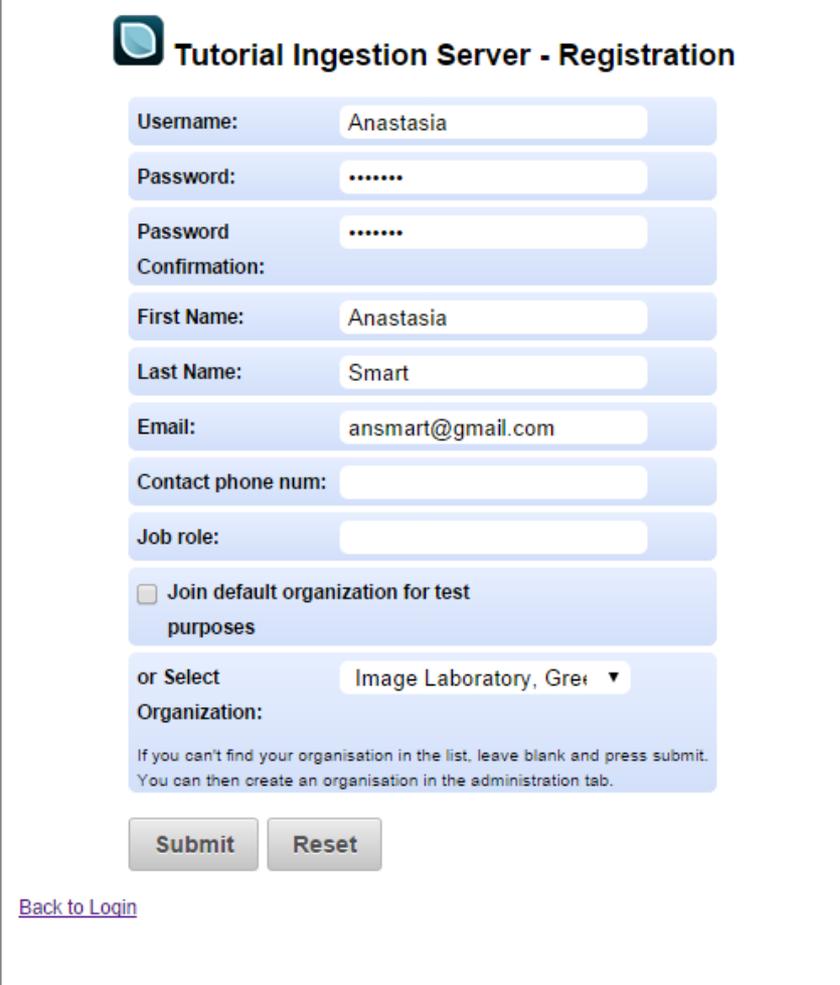
[I want to register](#)

[I forgot my login/password](#)

User registration under organization (Cont.)

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- Fill in the form
- Select organization
- Click on “Submit”



The screenshot shows a registration form titled "Tutorial Ingestion Server - Registration". The form contains the following fields and options:

- Username:** Anastasia
- Password:** (masked with dots)
- Password Confirmation:** (masked with dots)
- First Name:** Anastasia
- Last Name:** Smart
- Email:** ansmart@gmail.com
- Contact phone num:** (empty)
- Job role:** (empty)
- Join default organization for test purposes
- or Select Organization:** Image Laboratory, Gre... (dropdown menu)

Below the form, there are two buttons: "Submit" and "Reset". At the bottom left, there is a link: [Back to Login](#).

Exercise 5 - Create new user

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- Create a new user with the following characteristics:
 - Username: name_surname3
 - E.g. user3
 - The new user is related to the organization name_surname_org2
 - E.g. my2ndorganization

Rights assignment to user

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- The administrator has to assign rights to user

The screenshot displays the MINT Home administration interface. The top navigation bar includes 'Administration area' and 'Edit user'. The main content area is divided into three columns:

- Left Column (MINT Home):** Contains a sidebar with navigation links: 'My workspace', 'My account', 'Administration' (highlighted), 'Locks', 'Data reports', and 'Data statistics'. Below this are sections for 'Recent mappings' and 'Recent annotations'.
- Middle Column (Administration area):** Features a 'Manage users and organizations' section with buttons for 'Create new organization' and 'Create new user'. Below is a 'Filter by Organization' dropdown set to '-- All my organizations --'. The 'Users' section lists 'Eleni Iskou', 'Peter Pan', and 'Anastasia Smart'. The 'Organizations' section lists 'PANORAMA LABORATORY' and 'Image Laboratory'. Navigation controls (Prev, 1, Next) are present for both lists.
- Right Column (Edit user):** Shows the 'Edit user' form for 'Anastasia Smart'. Fields include: Username (Anastasia), New Password, Confirmation, First Name (Anastasia), Last Name (Smart), Email (ansmart@gmail.com), Contact phone num, Job role, Select Organization (Image Laboratory), and System role (data viewer). A dropdown menu for 'System role' is open, showing options: '--no role--', 'admin', 'annotator', 'annotator, publisher', and 'data viewer' (highlighted). A checkbox for 'Notify user by email for account changes' is present, along with 'Submit' and 'Reset' buttons.

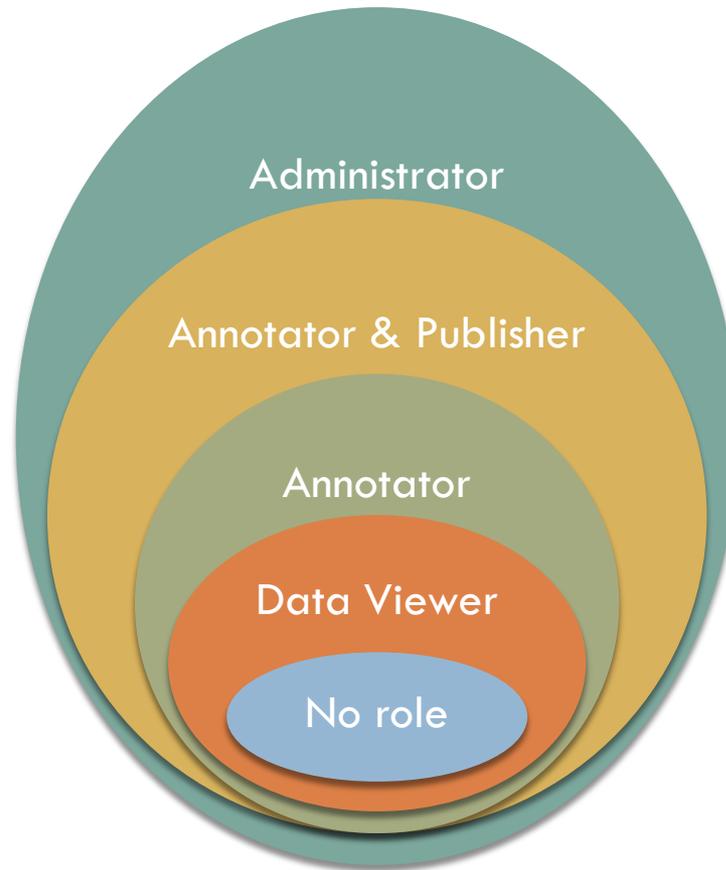
User roles

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- **Administrator:** This user can create/update/delete users and children organizations for the organization he is administering.
- **Annotator & Publisher:** This user has all the rights of an annotator as well as rights to perform final publishing of data.
- **Annotator:** This user can upload data for his/her organization (and any children organizations) and perform all available data handling functions (view items, delete items, mappings etc) provided by the system, apart from final publishing of data.
- **Data Viewer:** This user only has viewing rights for his organization
- **No role:** A user that has registered for an organization but has not yet been assigned any rights.

User roles

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Exercise 6 – Assign role to existing user

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- Register with your default username (name_surname)
- Assign to user name_surname2 the role of Annotator
- Assign to user name_surname3 the role of Annotator and Publisher

Exercise Results

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User	Organization	System Role
name.surname	name.surname.org	Administrator
name.surname2	name.surname.org	Data Viewer
name.surname3	name.surname.org2	Annotator & Publisher

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Metadata Import

Import metadata

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MINT Home
MINT services compose a web based platform designed and developed to facilitate aggregation initiatives for cultural heritage content and metadata in Europe...[\(read more\)](#)

- My workspace
- My account
- Administration
- Locks
- Data reports
- Data statistics

Recent mappings

Recent annotations

My workspace
An overview of all the datasets per organization and per uploader.

- Import new archive
- Create empty dataset

Filter by Organization: PANORAMA LABORATORY

Prev Next

No imports

Prev Next

Import

Local upload First upload the file: Upload a file
(.csv, .txt, .zip, .xml files allowed)

This is a CSV upload

Remote FTP/HTTP Upload

OAI URL Give link to OAI repository

From Date (YYYY-MM-DD)

To Date (YYYY-MM-DD)

OAI SET

Namespace Prefix

Upload for Organization PANORAMA LABORATORY
Parent organization upload support

This import conforms: --Select schema--
Select this option in addition to your import method in case your upload already conforms to the selected schema and no mapping is necessary.

This is a json upload

Submit Reset

Import metadata (Cont.)

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Start Import

Import

Local upload First upload the file:
(.csv, .txt, .zip, .xml files allowed)

This is a CSV upload

Remote FTP/HTTP Upload

OAI URL
Give link to OAI repository

From Date (YYYY-MM-DD)

To Date (YYYY-MM-DD)

OAI SET

Namespace Prefix

Upload for Organization

Parent organization upload support

This import conforms:

Select this option in addition to your import method in case your upload already conforms to the selected schema and no mapping is necessary.

This is a json upload

Exercise 7 – Import Metadata

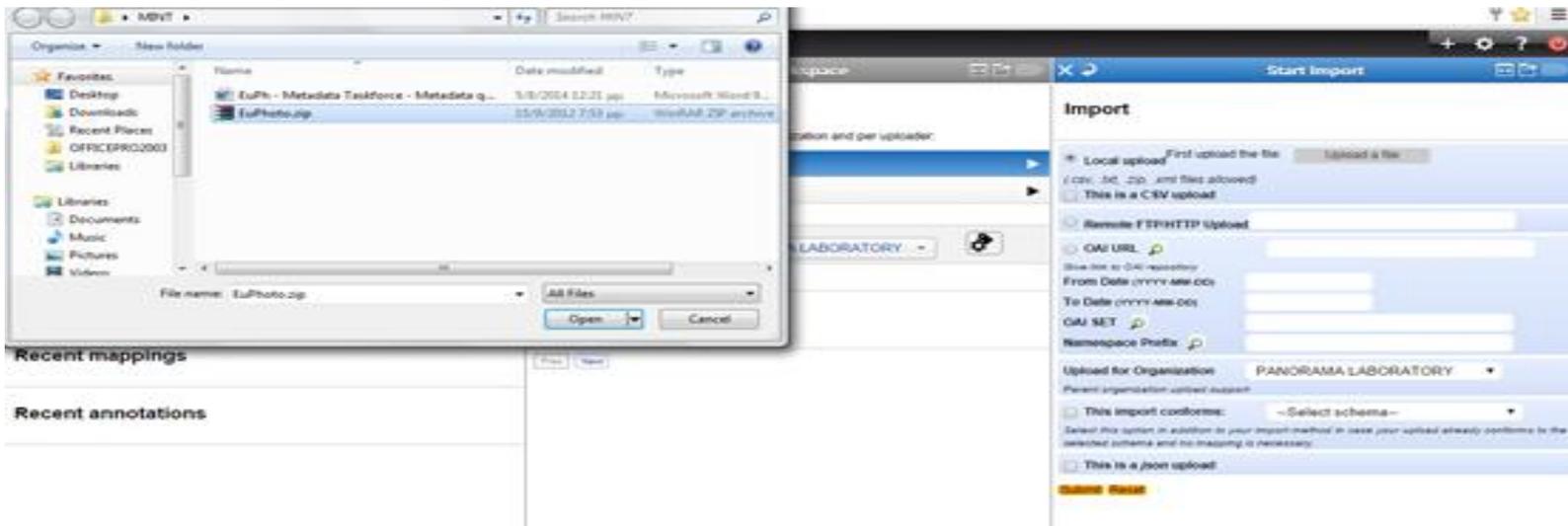
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- Import the file Euphoto.zip either via local upload, or via Remote FTP/HTTP Upload

Import metadata (Cont.)

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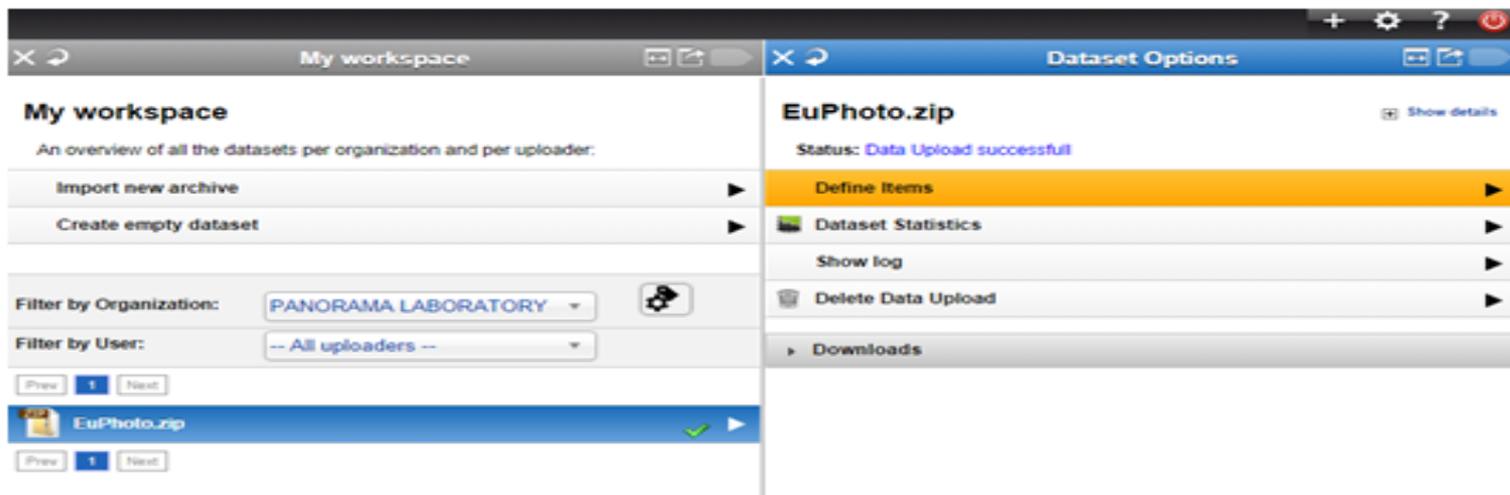
- Import the file containing your data either via local upload, or via Remote FTP/HTTP, OAI URL upload and click “Submit” (Different upload protocols are supported)



Import metadata

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- By selecting on the uploaded file from “My workspace” view, the “Dataset Options” appear
- After importing a file to MINT Ingestion platform it can be viewed in “My Workspace menu” either with a green ✓ tick that indicates that the import was successful or with a red ✗ that indicates a problem during upload



Define Items

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□ Set

- ▣ the item level of your import (root item)
- ▣ The item label of your import (title)
- ▣ The identifier of your import

by dragging and dropping the appropriate elements to the appropriate textboxes.

Define Items (Cont.)

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The screenshot shows a web interface for defining items in a dataset. The top navigation bar includes 'My workspace', 'Dataset Options', and 'Define Items'. Below this, there are two tabs: 'Dataset Options' and 'Define Items'. The 'Dataset Options' tab is active, showing the dataset name 'EuPhoto.zip' and a status message 'Status: Data Upload successful'. A sidebar menu on the left contains options: 'Define Items' (highlighted), 'Dataset Statistics', 'Show log', 'Delete Data Upload', and 'Downloads'. The 'Define Items' tab is also visible, showing a search bar and a list of items. The 'Item Level' section contains the text: 'Define the root node of every item. Drag & drop a node from the tree to the left in the box below, to set the item level.' The 'Item Label' section contains the text: 'Define the label that will be used as the item name in the item Overview. Drag & drop a node from the tree to the left in the box below, to set the item label.' The 'Item Id' section contains the text: 'Define the node that will be used as the item native id. Drag & drop a node from the tree to the left in the box below, to set the item id.' At the bottom right of the 'Define Items' tab, there are buttons for 'Reset all' and 'Done'.

Define Items (Cont.)

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The screenshot shows a software interface titled "Define Items". On the left is a tree view of metadata elements. A search bar at the top of the tree contains the text "title". The tree is expanded to show the following structure:

- [-] **tns:ImageMetadata**
 - [-] @xsi:schemaLocation
- [-] **tns:AdministrativeMetadata**
 - [-] tns:Identifier
 - [-] tns:MetadataURI
 - [-] tns:PhotoURI
 - [-] tns:Organisation
- [-] **tns:DescriptiveMetadata**
 - tns>Title** (highlighted)
 - [-] tns>Date
 - [-] tns:Photographer
 - [-] tns:Photographic_Technique
 - [-] tns:Location
 - [-] tns:Photographic_Practice
 - [-] tns:Material
 - [-] tns:Description
 - [-] tns:Copyright
 - [-] tns:Dimensions
- [-] **tns:RetrievalMetadata**
 - [-] tns:Subject
 - [-] tns:Actor
 - [-] tns:Place
 - [-] tns:Related_Object

On the right side of the interface, there are three input fields for defining item properties:

- Item Level**: `/tns:ImageMetadata`
- Item Label**: `/tns:ImageMetadata/tns:DescriptiveMetadata/tns>Title`
- Item Id**: `/tns:ImageMetadata/tns:AdministrativeMetadata/tns:Identifier`

At the bottom right, there are two buttons: "Reset all" (highlighted in orange) and "Done".

Dataset Statistics

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The screenshot shows a software interface with three main panes. The left pane, titled 'Dataset Options', shows a list of actions for 'EuPhoto.zip', with 'Dataset Statistics' selected. The middle pane, titled 'Dataset Stats', displays a table of statistics for various Xpaths. The right pane, titled 'Value Browsing', shows the title information for the selected 'tms:Title' XPath, including its namespace URI and a list of values.

Dataset Options

EuPhoto.zip Show details

Status: Data Upload successful

- Show all items 5 items ▶
- Mappings ▶
- Transform ▶
- Define Items ✓▶
- Dataset Statistics** ▶
- Show log ▶
- Delete Data Upload ▶
- Downloads

Dataset Stats

EuPhoto.zip Statistics

Xpath	Count	Distinct	Length
tms:ImageMetadata	5		
@xsi:schemaLocation	5	1	55
tms:AdministrativeMetad...	5		
tms:Identifier	5	5	8.6
tms:MetadataURI	5	5	58.6
tms:PhotoURI	5	5	60.6
tms:Organisation	5	1	4
tms:DescriptiveMetadata	5		
tms>Title	5	5	15.8
tms>Date	5	1	10
tms:Photographer	5	1	15
tms:Photographic_...	5	1	14
tms:Location	5	1	14
tms:Photographic_...	5	1	80
tms:Material	5	1	18
tms>Description	5	5	77
tms:Copyright	5	1	18
tms:Dimensions	5	4	7
tms:RetrievalMetadata	5		
tms:Subject	11	3	13.1
tms:Actor	5	1	7
tms:Place	10	2	6
tms:Related_Object	20	5	8.6

Value Browsing

tms:Title information

XPath: /ImageMetadata/DescriptiveMetadata/Title

Namespace URI: http://www.example.org/EuPhotoSchema

Count: 5

Distinct Count: 5

Average Length: 15.8

Value	Count
Caryatids	1
Parthenon	1
Parthenon East Pediment	1
Parthenon South Peristyle	1
The Parthenon	1

Show all items

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  **Dataset Options**   

EuPhoto.zip [Show details](#)

Status: [Data Upload successfull](#)

- Show items** 
- Mappings 
- Transform 
- Define Items  
- Dataset Statistics 
- Show log 
-  Delete Data Upload 

 Downloads

Show all items (Cont.)

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- ❑ Select a mapping (not applicable at this point)
- ❑ Select the previews you like
- ❑ Click on an item from the list

The screenshot displays a software interface titled "Data Upload Items". On the left, there is a "Preview Options" panel with the following elements:

- A "Select a mapping:" dropdown menu currently showing "No mapping selected".
- A section "Select item views for the first and second column:" containing two input fields: "Item X" and "Second column views".
- A "Remember selected views" link.
- A table listing items:

Item
The Parthenon
Parthenon South Peristyle
Caryatids
Parthenon
Parthenon East Pediment

On the right, a larger panel shows the XML metadata for the selected item, "The Parthenon". The XML is as follows:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <tns:ImageMetadata xmlns:tns="http://www.example.org/EuPhotoSchema"
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.example.org/EuPhotoSchema EuPhoto
4   <tns:AdministrativeMetadata>
5     <tns:Identifier>108_0851b</tns:Identifier>
6     <tns:MetadataURI>http://www.image.ntua.gr/~nsimou/EuPhoto/Data/108_0851b.xml</tns:MetadataURI>
7     <tns:PhotoURI>http://www.image.ntua.gr/~nsimou/EuPhoto/Image/108_0851b.jpeg</tns:PhotoURI>
8     <tns:Organisation>IWM</tns:Organisation>
9   </tns:AdministrativeMetadata>
10  <tns:DescriptiveMetadata>
11    <tns>Title>The Parthenon</tns>Title>
12    <tns>Date>2013-09-14</tns>Date>
13    <tns:Photographer>Petros Katsaros</tns:Photographer>
14    <tns:Photographic_Technique>Digital Camera</tns:Photographic_Technique>
15    <tns:Location>Athens, Greece</tns:Location>
16    <tns:Photographic_Practice>The photo was taken for the composition of an album with ancient Greek monuments</tns:Phot
17    <tns:Material>High Quality Paper</tns:Material>
18    <tns:Description>The west facade of the Parthenon</tns:Description>
19    <tns:Copyright>Ancient-Greece.org</tns:Copyright>
20    <tns:Dimensions>400x323</tns:Dimensions>
21  </tns:DescriptiveMetadata>
22  <tns:RetrievalMetadata>
23    <tns:Subject>Ancient Greece</tns:Subject>
24    <tns:Subject>The Parthenon</tns:Subject>
25    <tns:Actor>Unknown</tns:Actor>
26    <tns:Place>Greece</tns:Place>
27    <tns:Place>Athens</tns:Place>
28    <tns:Related_Object>108_0853</tns:Related_Object>
29    <tns:Related_Object>108_0868</tns:Related_Object>
30    <tns:Related_Object>108_0874b</tns:Related_Object>
31    <tns:Related_Object>108_0874c</tns:Related_Object>
32  </tns:RetrievalMetadata>
33 </tns:ImageMetadata>
```

Exercise 8 – Import Metadata

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- Set the item level, item label, and the identifier of the EuPhoto-Extended.zip import from:
 - tns:ImageMetadata
 - tns:Title
 - tns:Identifier
- View the statistics of the imported metadata from Dataset Options → Dataset Statistics
- View the imported items from Dataset Options → View all items

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Create New Mapping

Create new mapping

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- Select the schema to which you want to map your metadata

The screenshot displays a web application interface for creating a new mapping. The interface is divided into three main panels:

- Dataset Options:** Shows the dataset 'EuPhoto.zip' with a status of 'Data Upload successful'. It includes a list of actions: 'Show all items' (5 items), 'Mappings', 'Transform', 'Define Items' (checked), 'Dataset Statistics', 'Show log', 'Delete Data Upload', and 'Downloads'.
- Mappings:** Shows a list of actions: 'Create new mapping', 'Upload mapping', and 'Upload XSL'. It also includes a filter by organization set to 'PANORAMA LABORATORY' and a section for 'Recent mappings' with a mapping named 'ElenisMapping' for dataset 'EuPhoto.zip'. Below this is a section for 'All Mappings' with a pagination control showing 'Prev | 1 | Next' and an organization filter for 'PANORAMA LABORATORY'.
- New Mapping:** Shows a form for creating a new mapping. The 'Mapping Name' is 'TestMapping'. The 'Create with schema' dropdown is open, showing options: 'Select schema', 'Carare v2.0.4', 'EDM' (selected), and 'Lido'. There is a checkbox for 'Enable automatic mapping' and 'Submit' and 'Reset' buttons.

Exercise 9 – Create new mappings

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- Create a new mapping to the EDM schema with the following title:
 - yourName_surname_mapping

Mapping editor

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The screenshot shows a web-based Mapping editor interface. The browser tabs include 'Dataset Options', 'Mappings', 'Mapping: katerinamapping (EDM)', and 'Navigation'. The main window title is 'Mapping: katerinamapping (EDM)'. The interface is divided into three main sections, each highlighted with an orange rounded rectangle:

- Input Schema Area:** Located on the left, it contains a search bar and a tree view of the input schema. The tree view shows a hierarchy of classes: `tns:ImageMetadata`, `@xsi:schemaLocation`, `tns:AdministrativeMetadata` (with sub-classes `tns:Identifier`, `tns:MetadataURI`, `tns:PhotoURI`, `tns:Organisation`), `tns:DescriptiveMetadata` (with sub-classes `tns:Title`, `tns:Date`, `tns:Photographer`, `tns:Photographic_Technique`, `tns:Location`, `tns:Photographic_Practice`, `tns:Material`, `tns:Description`, `tns:Copyright`, `tns:Dimensions`), and `tns:RetrievalMetadata` (with sub-classes `tns:Subject`, `tns:Actor`, `tns:Place`, `tns:Related_Object`).
- Mapping Area:** The central workspace shows a list of classes from the target schema with their corresponding mappings. Each class has a 'structural' mapping type. The classes listed are: `rdf:RDF`, `edm:ProvidedCHO`, `edm:WebResource`, `edm:Agent`, `edm:Place`, `edm:TimeSpan`, and `skos:Concept`. Each entry includes a star icon, a plus icon, and a question mark icon.
- Navigation Area:** Located on the right, it contains a vertical stack of buttons for navigating between different classes: `ProvidedCHO`, `WebResource`, `Agent`, `Place`, `TimeSpan`, `Concept`, and `Aggregation`.

Input Schema Area

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- The tree represents the snapshot of the XML schema that is used as input for the mapping process. The user is able to navigate and access element statistics and also to search the tree by using the text field on the top.

The screenshot shows the 'Testphoto2' mapping tool interface. At the top, there are navigation tabs: 'My workspace', 'Dataset Options', 'Mappings', and 'Mapping: Testphoto2 (EDM)'. Below the tabs, the tool name 'Testphoto2' and 'EDM' are displayed, along with 'Organization: PANORAMA LABORATORY' and 'Created: 2014-10-01 12:05:44.519'. A search bar at the top of the tree area contains the text 'identifier'. The tree structure is as follows:

- [-] trns:ImageMetadata
 - [-] @xsi:schemaLocation
 - [-] trns:AdministrativeMetadata
 - [-] trns:Identifier (selected)
 - [-] trns:MetadataURI
 - [-] trns:PhotoURI
 - [-] trns:Organisation
 - [-] trns:DescriptiveMetadata
 - [-] trns:Title
 - [-] trns:Date
 - [-] trns:Photographer
 - [-] trns:Photographic_Technique
 - [-] trns:Location
 - [-] trns:Photographic_Practice
 - [-] trns:Material
 - [-] trns:Description
 - [-] trns:Copyright
 - [-] trns:Dimensions
 - [-] trns:RetrievalMetadata
 - [-] trns:Subject
 - [-] trns:Actor
 - [-] trns:Place
 - [-] trns:Related_Object

The screenshot shows a window titled 'trns:Identifier' displaying statistics for the selected element. The statistics are as follows:

trns:Identifier information	
XPath	trns:ImageMetadata/AdministrativeMetadata/Identifier
Namespace URI	http://www.example.org/EuPhotoSchema
Count	5
Distinct Count	5
Average Length	8.5

Value
108_0851b
108_0853
108_0868
108_0874b
108_0874f

Mapping Area

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The screenshot displays a software interface titled "Mapping: katerinamapping (EDM)". The interface includes a navigation bar with "Mapping: katerinamapping (EDM)" and "Navigation" tabs. Below the navigation bar, there is a status bar showing "LABORATORY 12:37:54.205" and buttons for "Preview", "Navigation", "Preferences", and "Help".

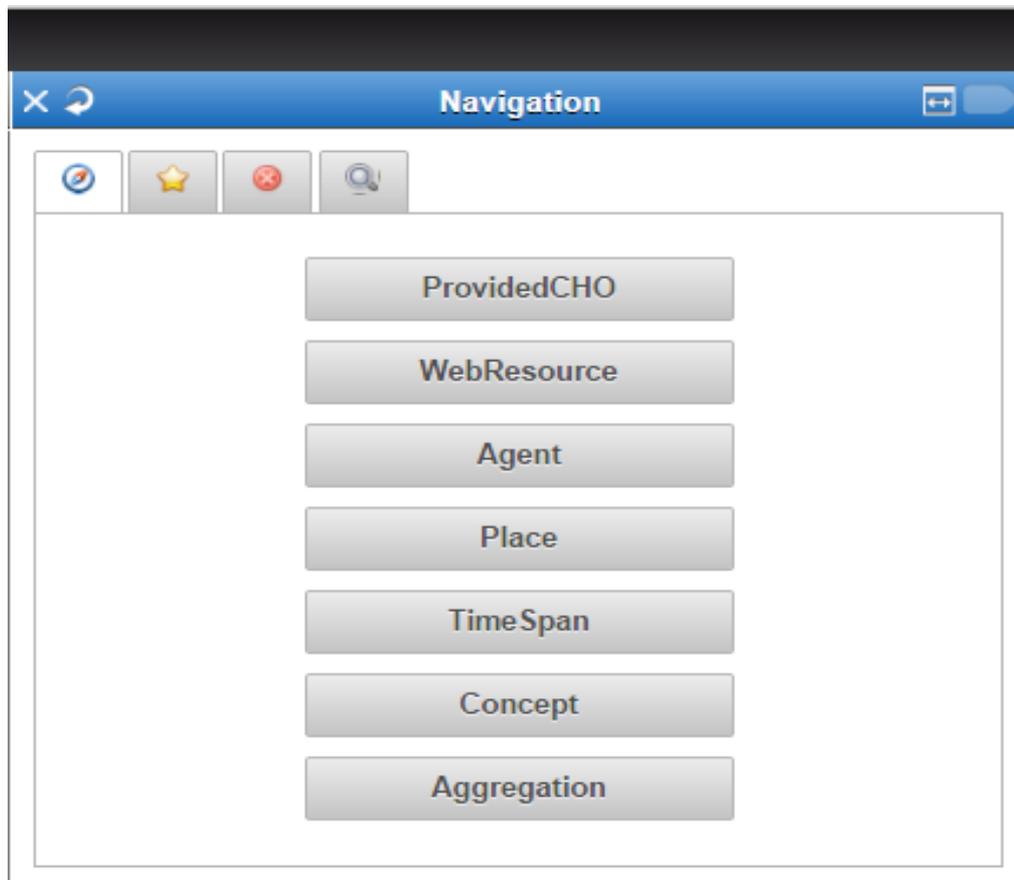
The main area shows a list of classes with their mappings. Each class is represented by a star icon, a class name, and a plus sign with a question mark. Below each class name is a text input field containing the word "structural".

Class	Mapping
rdf:RDF	structural
edm:ProvidedCHO	structural
edm:WebResource	structural
edm:Agent	structural
edm:Place	structural
edm:TimeSpan	structural
skos:Concept	structural

Navigation Area

43

- Shortcuts to the two types of EDM

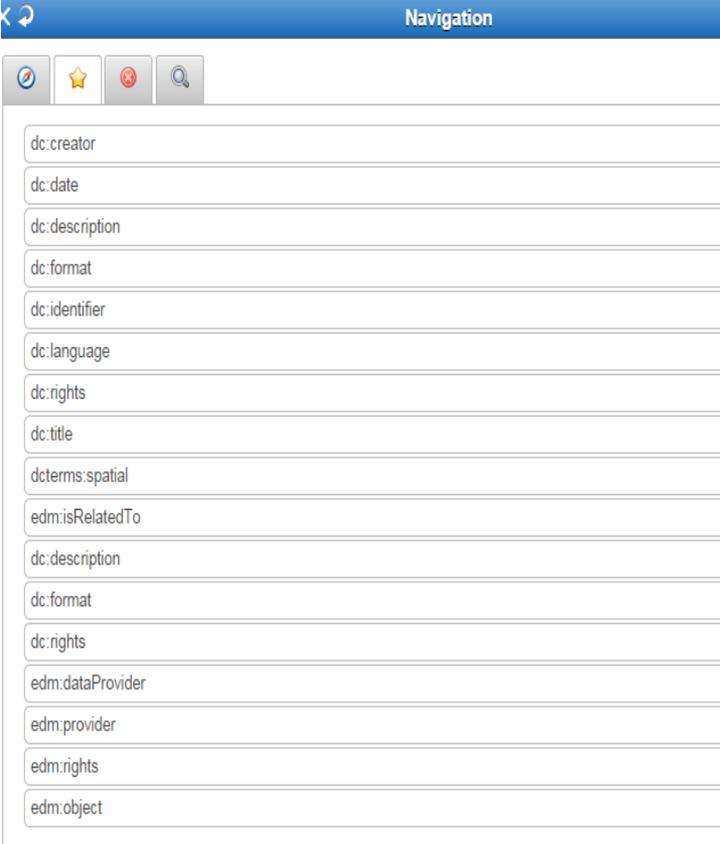


Navigation Area (Cont.)

44

□ Bookmarks

- A user can set/unset a bookmark to an element by clicking on the star (🌟) on its right



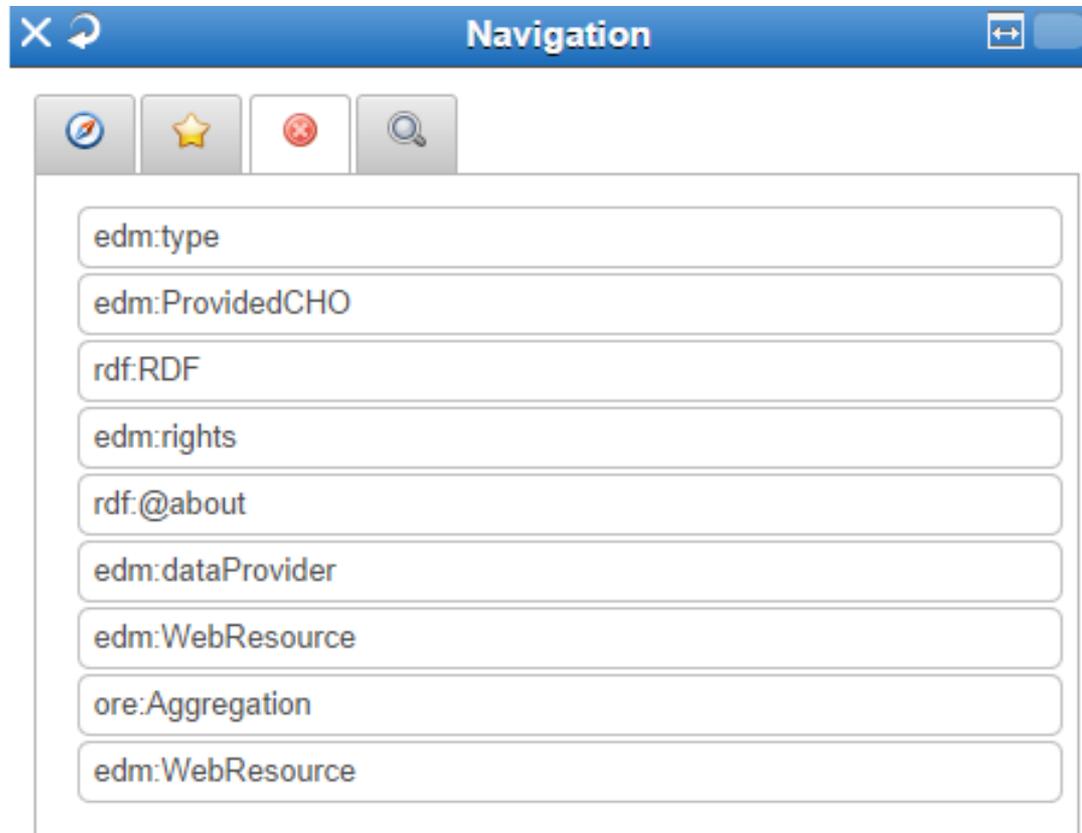
The screenshot shows a 'Navigation' window with a blue header. Below the header is a toolbar with four icons: a refresh icon, a star icon (highlighted in yellow), a close icon, and a search icon. The main area contains a list of metadata elements, each with a text input field and a star icon to its right. The elements listed are:

- dc:creator
- dc:date
- dc:description
- dc:format
- dc:identifier
- dc:language
- dc:rights
- dc:title
- dcterms:spatial
- edm:isRelatedTo
- dc:description
- dc:format
- dc:rights
- edm:dataProvider
- edm:provider
- edm:rights
- edm:object

Navigation Area (Cont.)

45

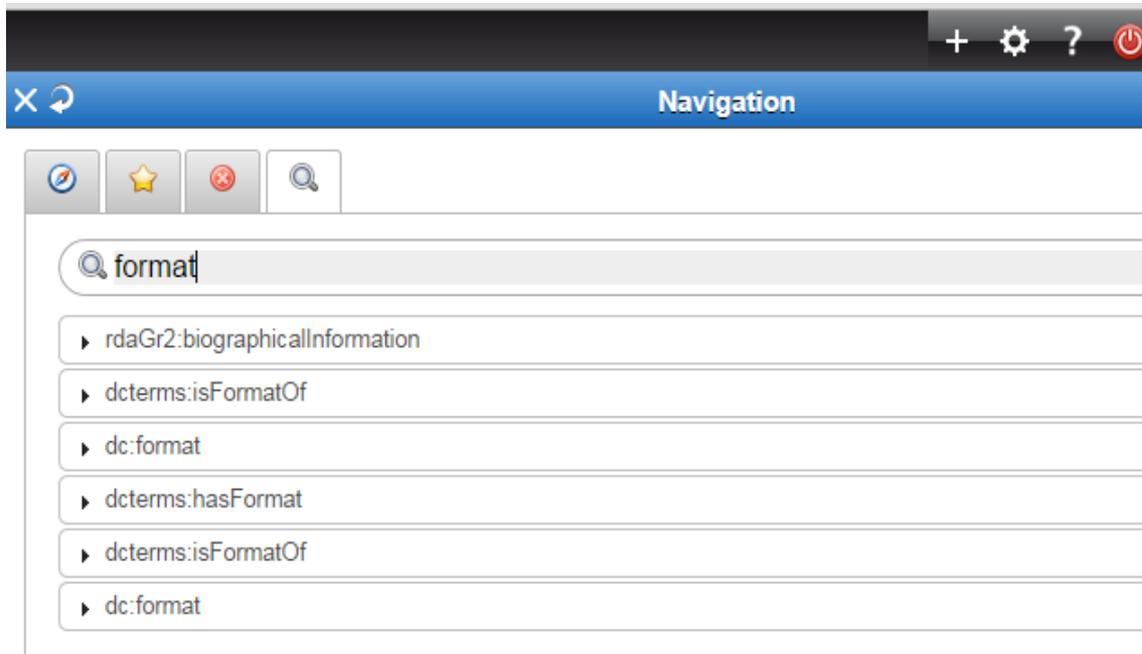
- Mandatory elements that are unmapped



Navigation Area (Cont.)

46

- Search the target schema



Mapping editor notation

47

Icon	Description
	Appears on the top left of an element to indicate that it is complex and thus by clicking on it you can view its sub-elements.
	Appears on the top left of an element to indicate that it has attributes. By clicking on it the attributes are displayed.
	Appears on the top left of an element to indicate that it has mandatory attributes that have not been assigned yet. By clicking on it the attributes are displayed.
	Appears on the top left of an element to indicate that attributes have been assigned to it.
	Appears on the top left of an element to indicate that it is mandatory and a value has to be assigned to it.
	Appears on the top left of an element to indicate that a value has been assigned to it.
	Appears on the top left of an element to indicate that it is not in the bookmarks. By clicking on it the star turns yellow and the element is added in the bookmarks.
	Appears on the top left of an element to indicate that it is in the bookmarks. By clicking on it the star turns grey and the element is removed from the bookmarks.
	Appears on the top right of an element to indicate that its cardinality can be greater than 1. By clicking on it a new element is added.
	Appears on the top right of all elements. By clicking on it you get the schema's documentation about that element.

Mapping editor notation (Cont.)

48

On the top of each element in the mapping area – the schema prefix and the element name are shown – (eg. edm: ProvidedCHO) there are some indicators described in the following table:

Icon	Description
	Appears on the left of the mapping to indicate that no conditional mapping is used. By clicking on it conditional mapping is activated.
	Appears on the left of the mapping to indicate that a conditional mapping is used. By clicking on it the conditional mapping is de-activated.
	Appears on the left of the mapping to indicate that no functional mapping is used. By clicking on it the functional mapping is activated.
	Appears on the left of the mapping to indicate that a functional mapping is used. By clicking on it the functional mapping is de-activated.
	Appears on the left of the mapping to indicate that no value mapping is used. By clicking on it the value mapping is activated.
	Appears on the left of the mapping to indicate that a value mapping is used. By clicking on it the value mapping is de-activated.
	Appears on the top left of a mapping. By clicking on it concatenate mapping is activated.
	Appears on the top left of a mapping. By clicking on it you remove the mapping.

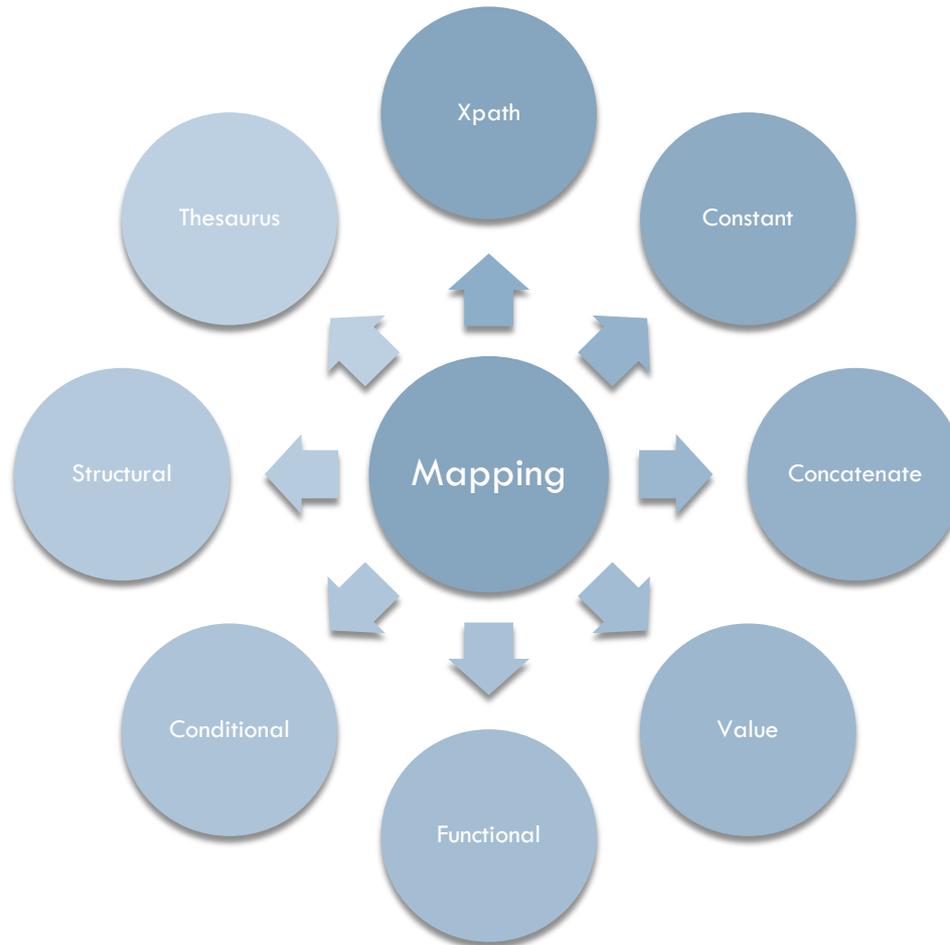
Exercise 10 – Navigation

49

- Navigate through the three different areas:
 - On the input schema area browse through the metadata and using the search button highlight the metadata field of title
 - On the mapping area browse through the target metadata schema by using the appropriate buttons (+,-,@)
 - Use the four tabs on the navigation area in order to navigate through fields, exam bookmarked fields, find mandatory elements that are unmapped and search for elements

Mappings

50



Mappings – Xpath mapping

51

- Xpath mapping is performed simply by dragging the xpath from the input tree and dropping it to the desired element of the mapping area.

The screenshot displays the TestMapping (EDM) application interface. The main window is titled "Mapping: TestMapping (EDM)" and contains a search bar, a "Preview" button, and a "Navigation" button. The left sidebar shows a tree view of the input schema elements, including `tns:ImageMetadata`, `tns:Administrative`, `tns:Identifier`, `tns:MetadataU`, `tns:PhotoURI`, `tns:Organisatic`, `tns:DescriptiveMet`, `tns>Title`, `tns>Date`, `tns:Photograph`, `tns:Location`, `tns:Photograph`, `tns:Material`, `tns:Description`, `tns:Copyright`, `tns:Dimensions`, `tns:RetrievalMetac`, `tns:Subject`, `tns:Actor`, `tns:Place`, and `tns:Related_OI`.

The main area shows the mapping configuration for `edm:ProvidedCHO`. The input tree is "Up to rdf:RDF". The mapping area contains several elements:

- `structural` (unmapped)
- `dc:contributor` (unmapped)
- `dc:coverage` (unmapped)
- `dc:creator` (mapped to `tns:Photographer`)
- `dc:date` (mapped to `tns>Date`)
- `dc:description` (unmapped)

The right sidebar, titled "Navigation", contains a list of target classes: `ProvidedCHO`, `WebResource`, `Agent`, `Place`, `TimeSpan`, `Concept`, and `Aggregation`.

Exercise 11 – Xpath Mappings

52

Using the navigation tab create the following Xpath mappings:

Source Element	Bookmark (to be added)	Target Element
Tns: Identifier		EDM:Provided CHO @rdf: about
Tns: Identifier		EDM:Provided CHO dc: identifier
Tns:Identifier		ore:Aggregation - EDM aggregated CHO @rdf:resource
Tns: Identifier*		ore:Aggregation- @rtf: about
		«Aggregation _+Identifier»
Tns:Metadata URI		ore:Aggregation /EDM: is Shown at @rdf:resource
Tns: PhotoUri		ore:Aggregation / isShownBy @RDF resource
Organisation		ore:Aggregation /EDM: provider

Exercise 11 – Xpath Mappings

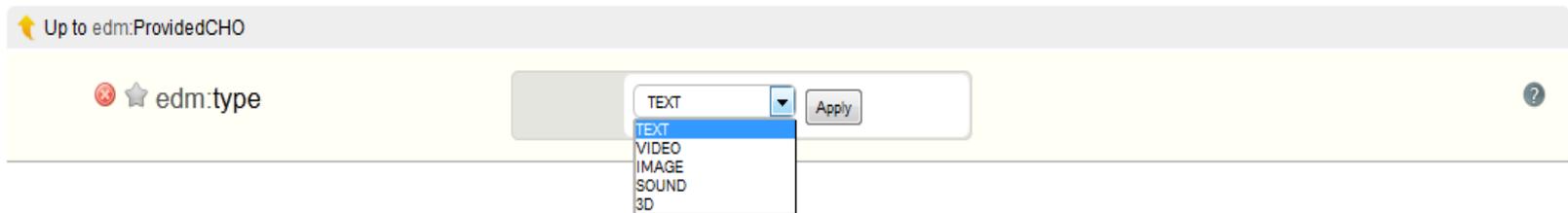
53

Source Element	Bookmark (to be added)	Target Element
Tns: Title		Provided CHO/dc: Title
Tns: Date		EDM PCHO/dcterms: created
		EDM PCHO/ dc:date
Tns: Photographer		EDM PCHO/dc:creator
Tns: Photographic Technique		EDM PCHO/dc:Format
Tns:Location		EDM PCHO/dcterms:Spatial
Tns:Photographic Practice		EDM PCHO/dc: Format
Tns:Material		EDM PCHO/dcterms:Medium
Tns:Description		EDM PCHO/dc:description
Tns:Copyright		EDM PCHO/dc:rights
Dimension		EDM PCHO/dc: extent
Tns: Subject		EDM PCHO/dc:subject
Tns:Place		EDM PCHO / dcterms:Spatial
Related object		EDM PCHO/ edm:is related to
EDM MAPPINGS		EDM PCHO/dc:type : image
		EDM PCHO /EDM rights @rdf: resourse : http://www.europeana.eu/rights/rr-F/

Mappings – Enumerated Mapping

54

- Double click on an element that takes values from an enumerated list.



Exercise 12 – Enumerated Mappings

55

Using the navigation tab create the following Enumerated mappings:

Target Element	Value
EDM PCHO/edm:type	image
EDM PCHO /EDM rights @rdf:resource	http://www.europeana.eu/rights/rr-F/

Mappings – Constant Mapping

56

- By double clicking on the unmapped area you can type a constant value that will be applied to all items.

↑ Up to edm:ProvidedCHO

@ ✓ ☆ dc.type

if

+ -

image

image

+ ?

Exercise 13 – Constant Mappings

57

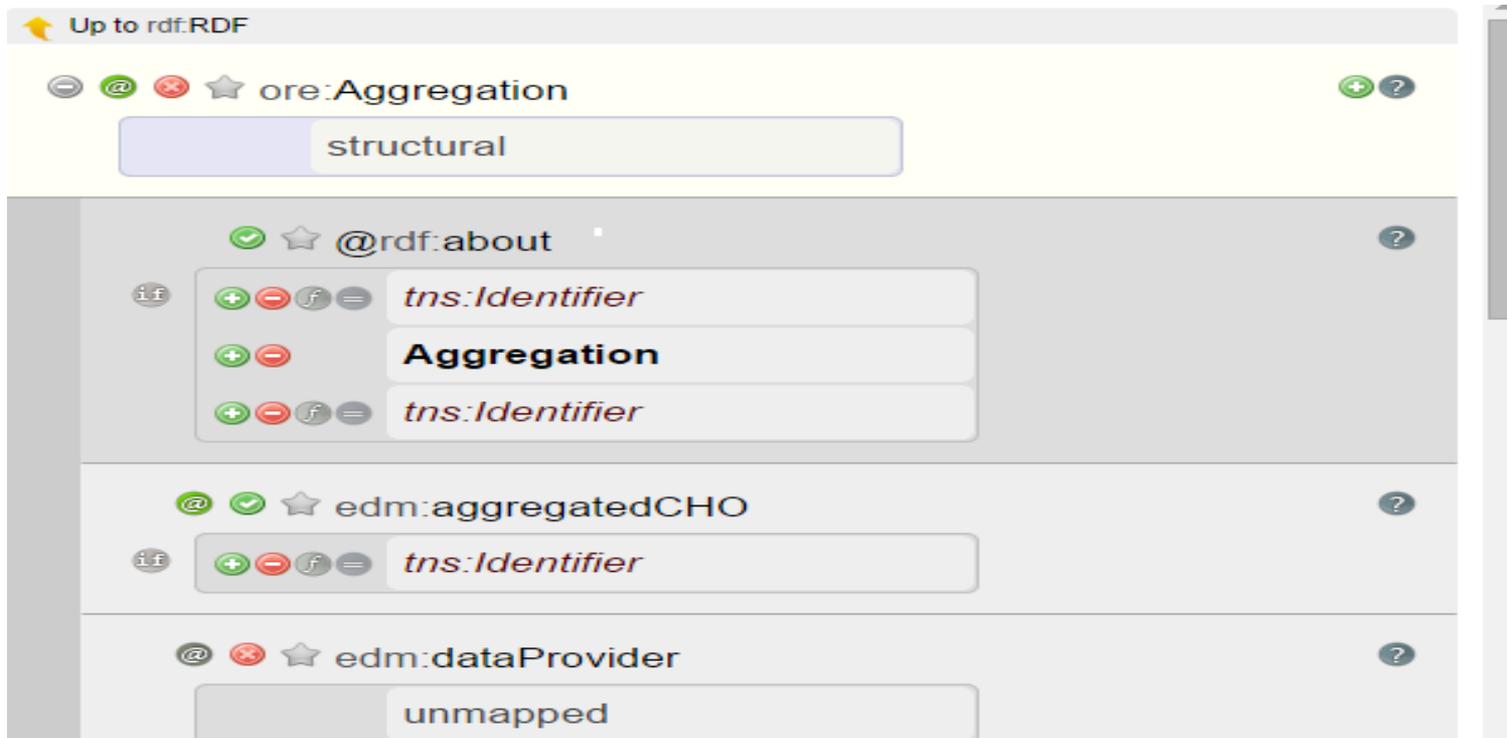
Using the bookmarks on the navigation tab create the following constant mapping:

Source Element	Target Element	Constant Value
Organisation	Ore:Aggregation/EDM:provider	NTUA

Mappings – Concatenate mapping

58

- By clicking on the  icon you can perform a concatenate mapping i.e. to combine more than one mappings for producing a new mapping.



The screenshot shows a web-based mapping tool interface. At the top, there is a breadcrumb trail "Up to rdf:RDF". Below it, the main mapping is identified as "ore:Aggregation" with a green plus icon and a question mark icon. A dropdown menu is open, showing the selected mapping type "structural".

Below the main mapping, there are three sub-mappings, each with its own set of icons (checkmark, star, question mark) and a dropdown menu:

- The first sub-mapping is "@rdf:about". It has a green checkmark, a star, and a question mark. Its dropdown menu is open, showing three options: "tns:Identifier", "Aggregation", and "tns:Identifier". Each option has its own set of icons (plus, minus, function, equals).
- The second sub-mapping is "edm:aggregatedCHO". It has a green checkmark, a star, and a question mark. Its dropdown menu is open, showing one option: "tns:Identifier".
- The third sub-mapping is "edm:dataProvider". It has a red X, a star, and a question mark. Its dropdown menu is open, showing one option: "unmapped".

Exercise 14 – Concatenate Mapping

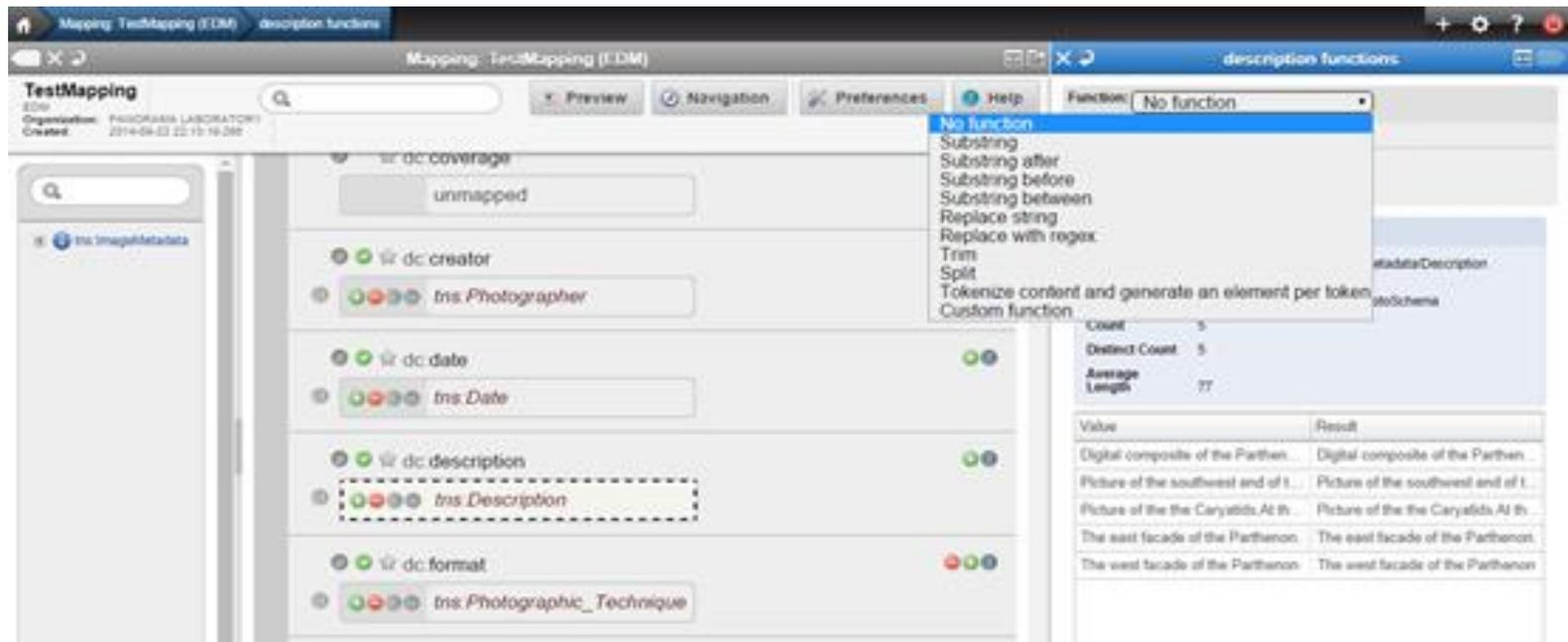
59

- The target field of the navigation **ore:Aggregation/@rdfabout** should take its value as a concatenate mapping between the source element: **tns:identifier** and the static text **“Aggregation”**

Mappings – Functional Mappings

60

- By clicking on the  button you can perform a functional mapping i.e. to transform the value from an input xpath by applying a string manipulation function to it.



The screenshot displays the TestMapping (EDM) application interface. The main window shows a list of properties being mapped, including `dc:coverage`, `dc:creator`, `dc:date`, `dc:description`, and `dc:format`. The `iris:Description` property is highlighted with a dashed box. A dropdown menu is open, showing various string manipulation functions such as `Substring`, `Replace string`, and `Trim`. The `Function` dropdown is currently set to `No function`. On the right side, a summary table shows statistics for the selected property:

Value	Result
Digital composite of the Parthen...	Digital composite of the Parthen...
Picture of the southwest end of I...	Picture of the southwest end of I...
Picture of the the Caryatids At th...	Picture of the the Caryatids At th...
The east facade of the Parthenon.	The east facade of the Parthenon.
The west facade of the Parthenon.	The west facade of the Parthenon.

Functional Mappings

61

- ▣ **Substring** – You set the start and the end index.
- ▣ **Substring after** – You set the substring of the original string after which the value is taken.
- ▣ **Substring before** – You set the substring of the original string before which the value is taken.
- ▣ **Substring between** – You set the substrings of the original string after and before which the value is taken.
- ▣ **Split** – You set the delimiter for tokenization and the start index of the original string.
- ▣ **Tokenize content and generate an element per content** – You set the delimiter for tokenization.

Mappings – Functional Mappings

62

Function:

Character indices start from 1.

string from index:

length of selected substring (optional):

Apply changes

Function:

select part of string after string:

and before string:

Apply changes

▼ tns:Description information

XPath	/ImageMetadata/DescriptiveMetadata/Description
Namespace URI	http://www.example.org/EuPhotoSchema
Count	5
Distinct Count	5
Average Length	77

Value	Result
Digital composite of the Parthen...	Digital
Picture of the southwest end of t...	Picture
Picture of the the Caryatids.At th...	Picture
The east facade of the Parthenon.	The eas
The west facade of the Parthenon	The wes

▼ tns:Description information

XPath	/ImageMetadata/DescriptiveMetadata/Description
Namespace URI	http://www.example.org/EuPhotoSchema
Count	5
Distinct Count	5
Average Length	77

Value	Result
Digital composite of the Parthen...	the Parthe
Picture of the southwest end of t...	the southwest e
Picture of the the Caryatids.At th...	the the Caryatids.At the south p...
The east facade of the Parthenon.	the Parthe
The west facade of the Parthenon	the Parthe

Exercise 15 – Functional Mapping

63

Create a functional mapping from the source element: **tns:Identifier** to the Target Element: **Identifier/identifier** such that the following transformations take place (use the substring after function):

Source Element Value	Target Element Value
108_0851b	0851b
108_0853	0853
108_0868	0868
108_0874b	0874b
108_0874f	0874f

Mappings – Conditional Mapping

- By clicking on the  button you can perform a conditional mapping i.e. to transform the value from an input xpath by using conditions. On the left the drop down menu with the type of condition appears that can be AND or OR. A condition is set using one of the following functions.
 - **Is equal to** – sets a condition that is satisfied when the given xpath is equal to the given value.
 - **Is not equal to** – sets a condition that is satisfied when the given xpath is not equal to the given value.
 - **Exists** – sets a condition that is satisfied if the given xpath exists. It is important to note at this point that the fact the xpath of an element exists in the input tree does not mean that it exists for all the data in the imported collection. (In other words the input tree shown on the left aggregates all the possible xpaths found in the input data).
 - **Does not exist** – sets a condition that is satisfied if the given xpath does not exist. It is important to note at this point that the fact the xpath of an element exists in the input tree does not mean that it exists for all the data in the imported collection. (In other words the input tree shown on the left aggregates all the possible xpaths found in the input data).

Mappings – Conditional Mapping

65

- ❑ **Contains** – sets a condition that is satisfied if the given xpath contains the given value.
- ❑ **Does not contain** – sets a condition that is satisfied if the given xpath does not contain the given value.
- ❑ **Starts with** – sets a condition that is satisfied if the given xpath starts with the given value.
- ❑ **Does not start with** – sets a condition that is satisfied if the given xpath does not start with the given value.
- ❑ **Ends with** – sets a condition that is satisfied if the given xpath ends with the given value.
- ❑ **Does not end with** – sets a condition that is satisfied if the given xpath does not end with the given value.

Mappings – Conditional Mapping

66

- If the value of xpath `tns:Description` **contains** “southwest” of EuPhoto then the value of the xpath `tns:Description` will be mapped to the xpath `edm:ProvidedCHO/ dc:description` of the target schema.



Exercise 16 – Conditional Mapping

67

Using the source elements `tns:Title` and `tns:Photographer` create the following conditional mapping for the `Title/edm:ProvidedCHO:title` target field:

- ▣ If the value of `tns:Title` contains the word Parthenon and the `tns:Photographer` value is Petros Katsaros then the `edm:title` is the concatenation between `tns:Title` and the String “by Petros Katsaros”
- ▣ Otherwise the `edm:title` is the same as `tns:Title`

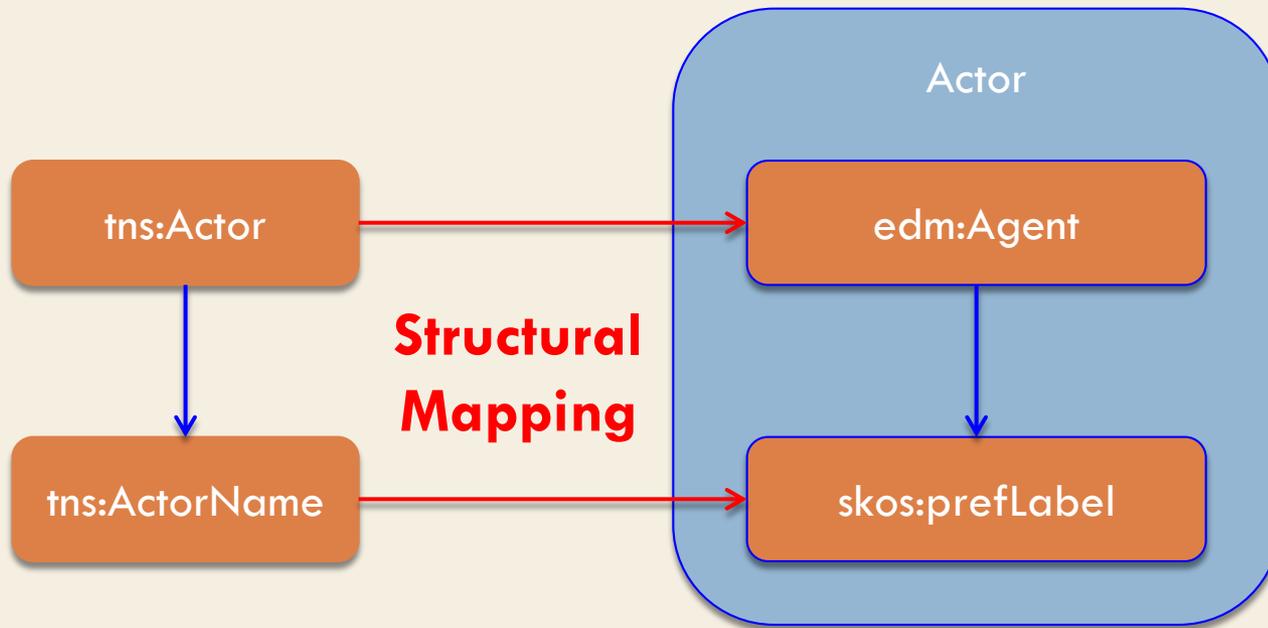
Mappings – Structural Mapping

- Structural mappings are a special category of mapping. As you may have noticed in the complex types of the target schema illustrated in the mapping area text structural appears instead of unmapped. At this area you can map complex elements of your input metadata.
- Let's assume you have a complex element named "B" in your metadata – having "C" as a child – and B appears 3 times in only one record. Also assume complex element "BTarget" – having "CTarget" as a child – in the target schema. If you make a structural mapping of B (by dragging it and dropping it) to "BTarget" and then you map "C" to "CTarget" 3 "BTarget" complex elements will appear in the output XML having "CTarget" as child and having the values of "C".

Exercise 17 – Structural mapping

69

Create the following structural mapping:



Mappings – Thesaurus mapping

70

- Elements that take values from vocabularies have the (thesaurus) label in their mapping text-field

This functionality will be enabled as soon as a Thesaurus is implemented

Mappings – Thesaurus mapping

71

- Double click on an element that takes values from a terminology (e.g. `xml:lang`) and this window appears from where you can select a term by clicking on it.
- This functionality will be enabled as soon as a Thesaurus is implemented

Exercise 18 – Thesaurus mapping

72

This functionality will be enabled as soon as a Thesaurus is implemented

Mappings – Value Mappings

73

- By clicking on the  icon you can perform a value mapping i.e. to map specific values of your input metadata to specific values that you set.

Input: 

Output:  Add

Input	Output	
Petros Katsaros	Petros Emmanuel Katsaros	

Mappings – Value Mappings

74

- Value mappings can be also used for mapping the local ontologies to the WP1 ontologies
- This functionality will be enabled as soon as a Thesaurus is implemented

Exercise 19 – Value Mappings

75

Create the following Xpath mappings:

Source Element	Target Element
Tns:Photographic _Technique	Edm:PCHO dc:format
Tns:Photographic _Practice	Edm:PCHO dc:format
Tns:Subject	Edm:PCHO dc:subjet

Based on the previous create the following value mappings:

Target Element	Initial Value	New Value
Edm:PCHO dc:format	Digital camera	general
Edm:PCHO dc:format	The photo was taken...Greek monuments	Documentary Photography
Edm:PCHO dc:subjet	The Parthenon	monument

Exercise 19 – Value Mappings

76

And the following constant mappings

Xpath	Constant Value
edm:dataProvider	NTUA

77

Preview Items

Preview Items

78

- Click on preview
- Select the previews you like in each tab
- Click on an item

Preview Options

Select a mapping:
TestMapping

Select item views for the first and second column:
Import Item × Item × Europeana ×

Remember selected views

Search everything

Item
The Parthenon
Parthenon South Peristyle
Caryatids
Parthenon
Parthenon East Pediment

Preview

Import Item Item Expand

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <tns:ImageMetadata xmlns:tns="http://www.example
3   xmlns:xsi="http://www.w3.org/2001/XMLSchema-ir
4   <tns:AdministrativeMetadata>
5     <tns:Identifier>108_0851b</tns:Identifier>
6     <tns:MetadataURI>http://www.image.ntua.gr/~n
7     <tns:PhotoURI>http://www.image.ntua.gr/~nsim
8     <tns:Organisation>IVML</tns:Organisation>
9   </tns:AdministrativeMetadata>
10  <tns:DescriptiveMetadata>
11    <tns:Title>The Parthenon</tns:Title>
12    <tns:Date>2013-09-14</tns:Date>
13    <tns:Photographer>Petros Katsaros</tns:Photogr
14    <tns:Photographic_Technique>Digital Camera</
15    <tns:Location>Athens, Greece</tns:Location>
16    <tns:Photographic_Practice>The photo was tak
17    <tns:Material>High Quality Paper</tns:Materi
18    <tns:Description>The west facade of the Part
19    <tns:Copyright>Ancient-Greece.org</tns:Copyr
20    <tns:Dimensions>400x323</tns:Dimensions>
21  </tns:DescriptiveMetadata>
22  <tns:RetrievalMetadata>
23    <tns:Subject>Ancient Greece</tns:Subject>
24    <tns:Subject>The Parthenon</tns:Subject>
25    <tns:Actor>Unknown</tns:Actor>
26    <tns:Place>Greece</tns:Place>
27    <tns:Place>Athens</tns:Place>
28    <tns:Related_Object>108_0853</tns:Related_Ob
29    <tns:Related_Object>108_0868</tns:Related_Ob
30    <tns:Related_Object>108_0874b</tns:Related_C
31    <tns:Related_Object>108_0874f</tns:Related_C
32  </tns:RetrievalMetadata>
33 </tns:ImageMetadata>
```

Preview Items

79

- Click on the red line to see the error

```
10  xmlns:rdaGr2="http://rdvocab.info/ElementsGr2/"
11  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
12  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
13  xmlns:skos="http://www.w3.org/2004/02/skos/core#"
14  xmlns:wgs84="http://www.w3.org/2003/01/geo/wgs84_pos#" xmlns:xalan="http://xml.apache.org/xalan">
15  <edm:ProvidedCHO rdf:about="108_0851b">
16    <dc:creator>Petros Emmanuel Katsaros</dc:creator>
17    <dc:date>2013-09-14</dc:date>
18    <dc:description>The west facade of the Parthenon</dc:description>
19    <dc:format>Digital Camera</dc:format>
20    <dc:format>The photo was taken for the composition of an album with ancient Greek monuments</dc:format>
21    <dc:identifier>108_0851b</dc:identifier>
22    <dc:subject>Ancient Greece</dc:subject>
23    <dc:subject>The Parthenon</dc:subject>
24    <dc:title>The Parthenon</dc:title>
25    <dc:type>image</dc:type>
26    <dcterms:extent>400x323</dcterms:extent>
27    <dcterms:medium>High Quality Paper</dcterms:medium>
28    <dcterms:spatial>Athens, Greece</dcterms:spatial>
29    <dcterms:spatial>Greece</dcterms:spatial>
30    <dcterms:spatial>Athens</dcterms:spatial>
31    <edm:isRelatedTo>108_0853</edm:isRelatedTo>
32    <edm:isRelatedTo>108_0868</edm:isRelatedTo>
33    <edm:isRelatedTo>108_0874b</edm:isRelatedTo>
34    <edm:isRelatedTo>108_0874f</edm:isRelatedTo>
35    <edm:type>IMAGE</edm:type>
36  </edm:ProvidedCHO>
37  <edm:WebResource rdf:about="http://www.image.ntua.gr/~nsimou/EuPhoto/Image/108_0851b.jpeg">
38    <dcterms:created>2013-09-14</dcterms:created>
39  </edm:WebResource>
40  <core:Aggregation rdf:about="108_0851bAggregation108_0851b">
41    <edm:aggregatedCHO rdf:resource="108_0851b"/>
42    <edm:dataProvider>IVM</edm:dataProvider>
43    <edm:isShownAt rdf:resource="http://www.image.ntua.gr/~nsimou/EuPhoto/Data/108_0851b.xml"/>
44    <edm:isShownBy rdf:resource="http://www.image.ntua.gr/~nsimou/EuPhoto/Image/108_0851b.jpeg"/>
45    <edm:rights rdf:resource="http://www.europeana.eu/rights/rr-f"/>
46
47  cvc-complex-type.2.4.a: Invalid content was found starting with element 'edm:rights'. One of
  {"http://www.europeana.eu/schemas/edm/":object, "http://www.europeana.eu/schemas/edm/":preview,
  "http://www.europeana.eu/schemas/edm/":provider} is expected.
```

Preview Items

80

EDM Europeana Show all

XML is valid based on EDM

```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <rdf:RDF xmlns:ore="http://www.openarchives.org/ore/terms/"
3   xmlns:owl="http://www.w3.org/2002/07/owl#"
4   xmlns:rdaGr2="http://rdvocab.info/ElementsGr2/"
5   xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
6   xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
7   xmlns:crm="http://www.cidoc-crm.org/rdfs/cidoc_crm_v5.0.2_english_label.rdfs#"
8   xmlns:skos="http://www.w3.org/2004/02/skos/core#"
9   xmlns:dc="http://purl.org/dc/elements/1.1/"
10  xmlns:wgs84="http://www.w3.org/2003/01/geo/wgs84_pos#"
11  xmlns:dcterms="http://purl.org/dc/terms/"
12  xmlns:xalan="http://xml.apache.org/xalan"
13  xmlns:edm="http://www.europeana.eu/schemas/edm/"
14  xmlns:foaf="http://xmlns.com/foaf/0.1/">
15  <edm:ProvidedCHO rdf:about="http://www.image.ntua.gr/CHO/Photography:000000">
16    <dc:creator xml:lang="eng">Petros Katsaros</dc:creator>
17    <dc:description xml:lang="eng">The west facade of the Parthenon </dc:description>
18    <dc:format>400x323</dc:format>
19    <dc:identifier>0851b</dc:identifier>
20    <dc:rights>Ancient-Greece.org</dc:rights>
21    <dc:subject rdf:resource="http://bib.arts.kuleuven.be/photoVocabulary/30808"/>
22    <dc:subject xml:lang="eng">Actor One </dc:subject>
23    <dc:subject xml:lang="eng">Actor Two</dc:subject>
24    <dc:subject xml:lang="eng">Greece </dc:subject>
25    <dc:subject xml:lang="eng">Athens</dc:subject>
26    <dc:title xml:lang="eng">The Parthenon by Petros Katsaros</dc:title>
27    <dc:type xml:lang="eng">Ancient PhotographyPhotography</dc:type>
28    <dc:type xml:lang="eng">Ancient Photography</dc:type>
29    <dcterms:created>2013-09-14</dcterms:created>
30    <dcterms:medium xml:lang="eng">High Quality Paper</dcterms:medium>
31    <dcterms:spatial>Athens, Greece</dcterms:spatial>
32    <edm:type>IMAGE</edm:type>
33  </edm:ProvidedCHO>
34  <edm:WebResource rdf:about="http://www.image.ntua.gr/~nsimou/EuPhoto/Image/108_0851b.jpeg"/>
35  <edm:WebResource rdf:about="http://www.image.ntua.gr/~nsimou/EuPhoto/Data/108_0851b.xml"/>
36  <skos:Concept rdf:about="http://terminology.lido-schema.org/lido00012"/>
37  <skos:Concept rdf:about="Ancient Greece"/>
38  <core:Aggregation rdf:about="http://www.image.ntua.gr/Aggregation/Photography:000000">
39    <edm:aggregatedCHO rdf:resource="http://www.image.ntua.gr/CHO/Photography:000000"/>
40    <edm:dataProvider>IVML - Image Video and Multimedia Systems Laboratory</edm:dataProvider>
41    <edm:isShownAt rdf:resource="http://www.image.ntua.gr/~nsimou/EuPhoto/Data/108_0851b.xml"/>
42    <edm:isShownBy rdf:resource="http://www.image.ntua.gr/~nsimou/EuPhoto/Image/108_0851b.jpeg"/>
43    <edm:object rdf:resource="http://www.image.ntua.gr/~nsimou/EuPhoto/Image/108_0851b.jpeg"/>
44    <edm:provider>Europeana Photographv</edm:provider>
```

Preview Items

81

Mapped Item Europeana Show all



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View item at
IVML [↗](#)

[Share](#)

[W](#) Cite on Wikipedia

[αα](#) Translate details

The Parthenon

Description: The west facade of the Parthenon
Subject: Ancient Greece The Parthenon
Creator: Petros Katsaros
Place: Athens, Greece Greece Athens
Date: 2013-09-14 2013-09-14
Format: Digital Camera The photo was taken for the composition of an album with ancient Greek monuments High Quality Paper 400x323
Identifier: 0851b
Relation: 108_0853 108_0868 108_0874b 108_0874f
Rights: Ancient-Greece.org
Data provider: IVML
Provider: NTUA

Search also for:

Title
The Parthenon

Who
Petros Katsaros

What
Ancient Greece
The Parthenon
Digital Camera
The photo was taken for the composition of an album with ancient Greek monuments

Provider
IVML
NTUA

Exercise 20 – Preview Items

82

For the mapping you have created click on the Preview button

- On the item views for the first column set: Item
- On the item views for the second column set: Mapped Item, Europeana
- Then click to one of the items (e.g. Parthenon) and check the initial item, its transformation to the EDM schema and how this item is displayed by the Europeana portal
- Check the mapped item for possible errors. In case of an error detect it and make the necessary changes based on the previous exercises.

Exercise 21 – Preview Items

In case that the mapped item created in the previews step contained no errors then:

- Deliberately create an error by removing a mandatory value
- For once again check the mapped item for possible errors. Alternatively check in the navigation bar for mandatory elements that are unmapped
- Restore the mapping to its previous form

84

Transform Items

Transform Items

85

- Select Transform from the Dataset Options and then select the mapping with which you wish to transform

The screenshot displays a three-pane interface for data management. The left pane, titled 'My workspace', shows a list of datasets with 'EuPhoto.zip' selected. The middle pane, titled 'Dataset Options', shows a menu with 'Transform' highlighted. The right pane, titled 'Transform', shows the 'Select Mapping' screen with 'TestMapping' selected.

My workspace
An overview of all the datasets per organization and per uploader:
Import new archive ▶
Create empty dataset ▶
Filter by Organization: PANORAMA LABORATORY
Filter by User: -- All uploaders --
EuPhoto.zip

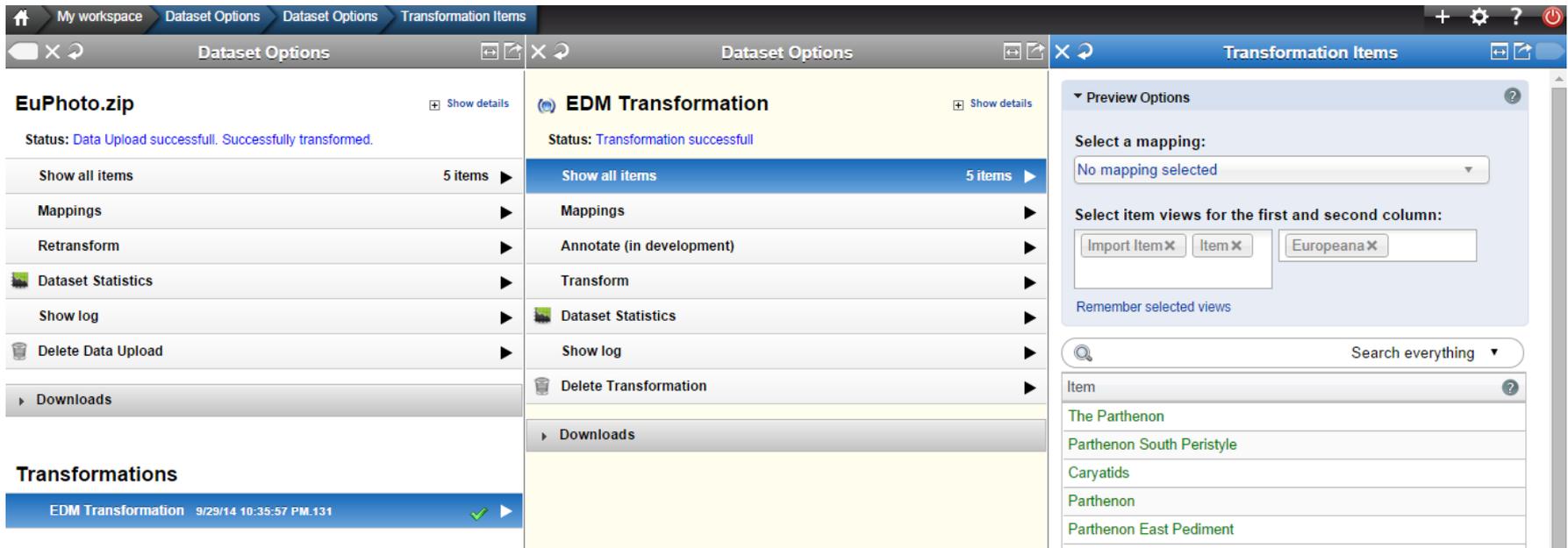
Dataset Options
EuPhoto.zip
Status: Data Upload successfull
Show all items 5 items ▶
Mappings ▶
Transform ▶
Define Items ✓ ▶
Dataset Statistics ▶
Show log ▶
Delete Data Upload ▶
Downloads

Transform
Select Mapping
Locked mappings, Shared mappings
Filter by Organization: -- All mappings --
Organization: PANORAMA LABORATORY
TestMapping (EDM) ▶
edmmapping2 (EDM) ▶
TestMapping

Preview Transformed Items

86

The transformation icon  appears next to the dataset and the derived dataset appears under the transformation



The screenshot displays a web interface with three main panels. The left panel, titled 'Dataset Options', shows a dataset named 'EuPhoto.zip' with a status of 'Data Upload successful. Successfully transformed.' Below this are several menu items: 'Show all items' (5 items), 'Mappings', 'Retransform', 'Dataset Statistics', 'Show log', 'Delete Data Upload', and 'Downloads'. The middle panel, also titled 'Dataset Options', shows an 'EDM Transformation' with a status of 'Transformation successful'. It includes menu items: 'Show all items' (5 items), 'Mappings', 'Annotate (in development)', 'Transform', 'Dataset Statistics', 'Show log', and 'Delete Transformation'. The right panel, titled 'Transformation Items', features a 'Preview Options' section with a 'Select a mapping' dropdown (currently 'No mapping selected') and a 'Select item views for the first and second column:' section with buttons for 'Import Item', 'Item', and 'Europeana'. Below this is a search bar and a list of items: 'The Parthenon', 'Parthenon South Peristyle', 'Caryatids', 'Parthenon', and 'Parthenon East Pediment'. At the bottom, a 'Transformations' section shows a table with one entry: 'EDM Transformation' dated '9/29/14 10:35:57 PM.131' with a green checkmark icon.

Preview Transformed Items (Mapped Item)

87

My workspace Dataset Options Data Upload Items

Data Upload Items

Preview Options

Select a mapping:
EUphototestmapping

Select item views for the first and second column:
Item Mapped Item Europeana

Remember selected views

Search everything

Item

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <ns:ImageMetadata xmlns:tns="http://www.example.or
3 xmlns:xsi="http://www.w3.org/2001/XMLSchema-Insta
4 <ns:AdministrativeMetadata>
5 <ns:Identifier>108_0868</ns:Identifier>
6 <ns:MetadataURI>http://www.image.ntua.gr/~nsimou/
7 <ns:PhotoURI>http://www.image.ntua.gr/~nsimou/
8 <ns:Organisation>IVML</ns:Organisation>
9 </ns:AdministrativeMetadata>
10 <ns:DescriptiveMetadata>
11 <ns:Title>Caryatids</ns:Title>
12 <ns>Date>2013-09-14</ns:Date>
13 <ns:Photographer>Petros Katsaros</ns:Photogra
14 <ns:Photographic_Technique>Digital Camera</ns
15 <ns:Location>Athens, Greece</ns:Location>
16 <ns:Photographic_Practice>The photo was taken
17 <ns:Material>High Quality Paper</ns:Material>
18 <ns>Description>Picture of the the Caryatids. A
19 <ns:Copyright>Ancient-Greece.org</ns:Copyrigh
20 <ns:Dimensions>300x400</ns:Dimensions>
21 </ns:DescriptiveMetadata>
22 <ns:RetrievalMetadata>
23 <ns:Subject>Ancient Greece</ns:Subject>
24 <ns:Subject>The Parthenon</ns:Subject>
25 <ns:Subject>Caryatids</ns:Subject>
26 <ns:Actor>Unknown</ns:Actor>
27 <ns:Place>Greece</ns:Place>
28 <ns:Place>Athens</ns:Place>
29 <ns:Related_Object>108_0853</ns:Related Objec
30 <ns:Related_Object>108_0851b</ns:Related Obje
31 <ns:Related_Object>108_0874b</ns:Related Obje
32 <ns:Related_Object>108_0874f</ns:Related Obje
33 </ns:RetrievalMetadata>
34 </ns:ImageMetadata>
```

Mapped Item Europeana

XML is valid based on EDM

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <rdf:RDF
3 xmlns:crm="http://www.cidoc-crm.org/rdfs/cidoc_cr
4 xmlns:dc="http://purl.org/dc/elements/1.1/"
5 xmlns:dcterms="http://purl.org/dc/terms/"
6 xmlns:edm="http://www.europeana.eu/schemas/edm/"
7 xmlns:foaf="http://xmlns.com/foaf/0.1/"
8 xmlns:ore="http://www.openarchives.org/ore/terms/"
9 xmlns:owl="http://www.w3.org/2002/07/owl#"
10 xmlns:rdaGr2="http://rdvocab.info/ElementsGr2/"
11 xmlns:rdf="http://www.w3.org/1999/02/22-rdf-synta
12 xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#
13 xmlns:skos="http://www.w3.org/2004/02/skos/core#"
14 xmlns:wgs84="http://www.w3.org/2003/01/geo/wgs84_
15 <edm:ProvidedCHO rdf:about="108_0868">
16 <dc:creator>Petros Katsaros</dc:creator>
17 <dc:date>2013-09-14</dc:date>
18 <dc:description>Picture of the the Caryatids. At
19 <dc:format>Digital Camera</dc:format>
20 <dc:format>The photo was taken for the composi
21 <dc:identifier>0868</dc:identifier>
22 <dc:rights>Ancient-Greece.org</dc:rights>
23 <dc:subject>Ancient Greece</dc:subject>
24 <dc:subject>The Parthenon</dc:subject>
25 <dc:subject>Caryatids</dc:subject>
26 <dc:title>Caryatids</dc:title>
27 <dc:terms:created>2013-09-14</dc:terms:created>
28 <dc:terms:extent>300x400</dc:terms:extent>
29 <dc:terms:medium>High Quality Paper</dc:terms:med
30 <dc:terms:spatial>Athens, Greece</dc:terms:spat
31 <dc:terms:spatial>Athens</dc:terms:spatial>
32 <edm:isRelatedTo>108_0853</edm:isRelatedTo>
33 <edm:isRelatedTo>108_0851b</edm:isRelatedTo>
34 <edm:isRelatedTo>108_0874b</edm:isRelatedTo>
35 <edm:isRelatedTo>108_0874f</edm:isRelatedTo>
36 <edm:type>IMAGE</edm:type>
37 </edm:ProvidedCHO>
38 <ore:Aggregation rdf:about="108_0868Aggregation10
39 <edm:aggregatedCHO rdf:resource="108_0868"/>
40 <edm:dataProvider>IVML</edm:dataProvider>
41 <edm:isShownAt rdf:resource="http://www.image.n
42 <edm:isShownBy rdf:resource="http://www.image.n
43 <edm:provider>NTUA</edm:provider>
44 <edm:rights>http://europeana.eu/rights/rr-f/</
45 </rdf:RDF>
```

Preview Transformed Items (Europeana)

88

My workspace Dataset Options Data Upload Items

Data Upload Items

Preview Options

Select a mapping:
EUphototestmapping

Select item views for the first and second column:
Item X Europeana X

Remember selected views

Search everything

Item

- The Parthenon
- Parthenon South Peristyle
- Caryatids
- Parthenon
- Parthenon East Pediment

Europeana

Caryatids



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View item at
[IVML](#)

Share

[Cite on Wikipedia](#)

[Translate details](#)

Description:Picture of the the Caryatids.At the south porch of the Erechtheion

Subject:Ancient Greece The Parthenon Caryatids

Creator: Petros Katsaros

Place: Athens, Greece Greece Athens

Date: 2013-09-14 2013-09-14

Format: Digital Camera The photo was taken for the composition of an album with ancient Greek monuments High Quality Paper 300x400

Identifier:0868

Relation: 108_0853 108_0851b 108_0874b 108_0874f

Rights: Ancient-Greece.org

Data provider: IVML

Provider: NTUA

Search also for:

Title
Caryatids

Who
Petros Katsaros

What
Ancient Greece
The Parthenon
Caryatids
Digital Camera
The photo was taken for the composition of an album with ancient Greek monuments

Provider
IVML
NTUA

Prev 1 Next Show: 15 100 1000

Exercise 22 – Transform Items

89

Transform the elements in your initial dataset (“EuPhoto.zip”) based on the mapping you have created

Project Reports

90

The screenshot displays the MINT Home web application interface. The top navigation bar includes 'Data Report' and 'Project Report' tabs. The main content area is divided into three panes:

- Left Pane (MINT Home):** Features the 'europeana sounds' logo, a description of MINT services, and a sidebar menu with items: 'My workspace', 'My account', 'Administration', 'Locks', 'Data reports' (highlighted), and 'Data statistics'. Below the menu are sections for 'Recent mappings' and 'Recent annotations'.
- Middle Pane (Data Report):** Titled 'View project and organization reports:', it contains a dropdown menu with 'Organization reports' and 'Project reports' (highlighted).
- Right Pane (Project Report):** Titled 'Project reports:', it includes a 'From:' field with an input box, a 'To:' field with an input box, and a list of report categories: 'Overall', 'Imports', 'Transformations', 'Publications', 'Oai Publications', and 'Detailed progress report'.

This functionality will be enabled when Europeana Sounds Ingestion starts. However, the following examples are derived from MINT tutorial.

Overall

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Tutorial

PANORAMA LABORATORY



Greece

Imports

Import Name	User Name	Date Created	Date Modified	Items
EuPhoto.zip	Eleni Iskou	19/09/2014	20/09/2014	5

Mappings

Mapping Name	Schema	Date Created	Date Modified
TestMapping	EDM	22/09/2014	29/09/2014
edmmapping2	EDM	22/09/2014	29/09/2014

Transformations

Parent Import	Date Modified	Valid	Invalid	Schema Target	Mapping Used
EuPhoto.zip	29/09/2014	5	0	EDM	TestMapping

Progress Report

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Tutorial

PANORAMA LABORATORY

Greece



Transformations

Transformation Name	Date Modified	Parent Import	Mapping Used	Valid	Invalid
EDM Transformation	29/09/2014	EuPhoto.zip	TestMapping	5	0

* Estimated items ready for publication :

5

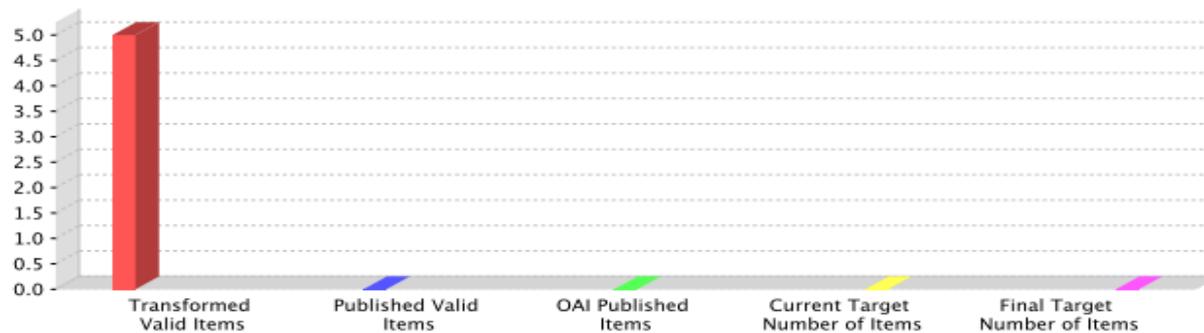
* Number of items ready for publication is estimated roughly by the number of valid transformed items without checking for duplicates .

Progress Status

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Progress status

Status / Target	Date	Items
Transformed Valid Items	29/09/2014	5
Published Valid Items	29/09/2014	0
OAI Published Items	29/09/2014	0
Current Target Number of Items	null	0
Final Target Number of Items	null	0



* Number of items ready for publication is estimated roughly by the number of valid transformed items without checking for duplicates .