

iMuse presentation



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Greece

Aristotle University of Thessaloniki

Database + Micro-application



Database (1)

Arch (48)

- audiences
- audios
- classes
- descriptions_relClassesTexts
- descriptions_relItemsTexts
- descriptions_relMaterialsTexts
- descriptions_relShowcasesTexts
- descriptions_relSitesTexts
- descriptions_relSubjectsTexts
- eras
- excavations_relItemsSites
- groups
- items
- languages
- materials
- origins_relItemsSites
- pictures
- relErasTexts
- relGroupsShowcases
- relGroupsSubjects
- relItemsAudios
- relItemsClasses
- relItemsEras
- relItemsMaterials
- relItemsPictures

- relItemsVideos
- relRoomsShowcases
- relShowcasesAudios
- relShowcasesItems
- relShowcasesPictures
- relShowcasesVideos
- relSitesPictures
- relShowcasesRfidtags
- RFID
- rfidtags
- rooms
- showcases
- sites
- subjects
- texts
- titles_relClassesTexts
- titles_relItemsTexts
- titles_relMaterialsTexts
- titles_relShowcasesTexts
- titles_relSitesTexts
- titles_relSubjectsTexts
- users
- videos

- Covering Archaeologists demands
- 48 Tables and growing
- rel* tables joining foreign-keys
- Sixth normal form (6NF)

- Supporting:
 - Rfids
 - Users

 - Games
 - Projection room
 - Wing
 - More...



Database (2)

Διακομιστής: localhost ▶ Βάση: Arch ▶ Πίνακας : items

Περιήγηση Δομή SQL Αναζήτηση Εισαγωγή Εξαγωγή Import Λειτουργίες Άδειασμα

	Πεδίο	Τύπος	Collation	Χαρακτηριστικά	Κενό	Προκαθορισμένο	Πρόσθετα
<input type="checkbox"/>	id	int(11)			Όχι	None	auto_increment
<input type="checkbox"/>	length	decimal(10,0)			Ναι	NULL	
<input type="checkbox"/>	preciseDiscoveryDate	date			Ναι	NULL	
<input type="checkbox"/>	preciseDatedDate	date			Ναι	NULL	
<input type="checkbox"/>	width	decimal(10,0)			Ναι	NULL	
<input type="checkbox"/>	height	decimal(10,0)			Ναι	NULL	
<input type="checkbox"/>	girth	decimal(10,0)			Ναι	NULL	
<input type="checkbox"/>	diameter	decimal(10,0)			Ναι	NULL	
<input type="checkbox"/>	code	varchar(255)	utf8_unicode_ci		Όχι	None	

Επιλογή όλων / Απεπιλογή όλων Με τους επιλεγμένους:

- Shallow fields
- Deep relations
- JOIN complexity but flexibility

- relItemsAudios
- relItemsClasses
- relItemsEras
- relItemsMaterials
- relItemsPictures
- relItemsVideos



Micro-application UI – Technologies

- Client-side
 - jQuery (javascript, Ajax)
- Server-side
 - PHP
 - CodeIgniter
- DBMS: MySQL
- Other
 - Flash Uploader
 - CSS 2
 - VirtualBox 3

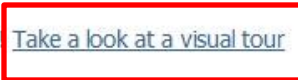


Micro-application UI – Home Page

Athanasakeion Archaeological Museum of Volos

- Home
- Items ▾
- Showcases ▾
- Materials ▾
- Classes ▾
- Sites ▾
- Audiences ▾
- Languages ▾
- Groups ▾
- Subjects ▾
- Eras ▾
- Add new user
- Logout

Hi, please start adding content by selecting stuff from the menu! [Take a look at a visual tour](#)



User manual

Drop down menu

Athanasakeion Archaeological Museum of Volos

- Home
- Items ▾
- Showcases ▾
- Materials ▾
- Classes ▾
- Sites ▾
- Audiences ▾
- Languages ▾
- Groups ▾
- Subjects ▾
- Eras ▾
- Add new user
- Logout

- Add Item
- List of Items
- Search Items



3 options: Add, List and Search

Hi, please : selecting stuff from the menu! [Take a look at a visual tour](#)

- Homogenous operations for all Items, Showcases, etc



Micro-application UI – Add Item

Athanasakeion Archaeological Museum of Volos

Home Items ▾ Showcases ▾ Materials ▾ Classes ▾ Sites ▾ Audiences ▾ Languages ▾ Groups ▾ Subjects ▾ Eras ▾ Add new user Logout

Elements with **green** border are required!

Create New Item

To create an item you have to provide both a unique code name and one or more titles

Item Code
 (unique)

Item Length
 (> zero)

Item Width
 (> zero)

Item Height
 (> zero)

Item Diameter
 (> zero)

Item Girth
 (> zero)

You can add one or more titles

Languages

Select Language ▾

Create new title

Created Titles

Materials Select Material ▾ Classes Select Class ▾ Origin Sites Select Site ▾ Excavation Sites Select Site ▾ Showcases Select Showcase ▾ Eras Select Era ▾

[Add Descriptions](#) [Add Pictures](#) [Add Audios](#) [Add Videos](#)

Create new item



Creation of item and its associations!



Micro-application UI – Add Item

[Add Descriptions](#) [Add Pictures](#) [Add Audios](#) [Add Videos](#)

You can add one or more descriptions

Audiences

Select Audience ▾

Languages

Select Language ▾

Create new description

Show/Hide Tabs

[Add Descriptions](#) [Add Pictures](#) [Add Audios](#) [Add Videos](#)

Please press the **BROWSE** button to select an image file

BROWSE

[Upload Picture](#)

Audiences

Select Audience ▾

Add new picture



Micro-application UI – Validation examples

[Add Descriptions](#) [Add Pictures](#) [Add Audios](#) [Add Videos](#)

You can add one or more descriptions

This is just a description!

Audiences

Select Audience ▾

Languages

Select Language ▾

Create new description

The audience field is required.

The language field is required.

Item Length

αβγ123 (> zero)

Item Width

-12 (> zero)

Item Height

123αβγ (> zero)

Item Diameter

(> zero)

Item Girth

(> zero)

Η σελίδα στο <http://kabamaru.csd.auth.gr> δηλώνει:



The length field must be a number
The width field must be greater than zero
The height field must be a number

OK



Micro-application UI – Update Item (1)

Athanasakeion Archaeological Museum of Volos

[Home](#) [Items](#) [Showcases](#) [Materials](#) [Classes](#) [Sites](#) [Audiences](#) [Languages](#) [Groups](#) [Subjects](#) [Eras](#) [Add new user](#) [Logout](#)

Update Item

Item Code
 (unique)

Item length
 (> zero)

Item width
 (> zero)

Item height
 (> zero)

Item diameter
 (> zero)

Item girth
 (> zero)

Assign New Title
You can add one or more titles

Languages

Created Titles

Also one can add new titles to this item

Materials

[Remove assignment](#)

Showcases

[Remove assignment](#)

Classes

[Remove assignment](#)

Origin Sites

[Remove assignment](#)

Excavation Sites

[Remove assignment](#)

Eras

[Remove assignment](#)

[Update 1-Title](#) [Update 2-Title](#)

continue...



Micro-application UI – Update Item (2)

[Update 1-Description](#) [Update 2-Description](#) [Update 3-Description](#)

[Update 1-Picture](#)

There are no available audios

There are no available videos

[Add Descriptions](#) [Add Pictures](#) [Add Audios](#) [Add Videos](#)

Update item



Micro-application UI – Search Item (1)

Athanasakeion Archaeological Museum of Volos

Home Items ▾ Showcases ▾ Materials ▾ Classes ▾ Sites ▾ Audiences ▾ Languages ▾ Groups ▾ Subjects ▾ Eras ▾ Add new user Logout

Search items

id: 23 - length: N/A - preciseDiscoveryDate: N/A - preciseDatedDate: N/A - width: N/A - height: N/A - girth: N/A - diameter: N/A - code: wew2 -

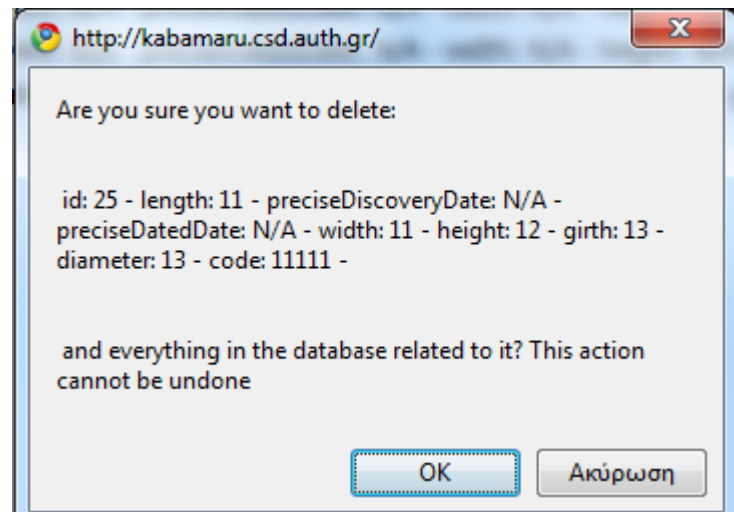
id: 24 - length: N/A - preciseDiscoveryDate: N/A - preciseDatedDate: N/A - width: N/A - height: N/A - girth: N/A - diameter: N/A - code: asdasd -

id: 25 - length: 11 - preciseDiscoveryDate: N/A - preciseDatedDate: N/A - width: 11 - height: 12 - girth: 13 - diameter: 13 - code: 11111 -

- Keywords-based search
- Look as substring (case - insensitive)
- Perform DFS depth 2, following *rel**



Micro-application UI – Delete Item (1)





Micro-application UI – Preview Item (1)

Item's details - Google Chrome
http://kabamaru.csd.auth.gr/~developer2/imuse_xristos/index.php/details_controller/items/25#titlesUpdateView1

Item details

Item Code: 11111	Material: 1234
Item length: 11	Showcase: There is no showcase assigned
Item width: 11	Class: There is no class assigned
Item height: 12	Origin site: There is no origin site assigned
Item diameter: 13	Excavation site: There is no excavation site assigned
Item girth: 13	Era: There is no era assigned

Titles *(Click on a title to see more information)*
[ειδώλιο](#) [ειδώλιο](#) [idol](#) [idol](#) [idol](#) [idol](#)

Title: ειδώλιο
Language: Greek

Descriptions *(Click on a description to see more information)*
[Description-1](#) [Description-2](#) [Description-3](#) [Description-4](#) [Description-5](#) [Description-6](#) [Description-7](#)

There are no available pictures

There are no available audios

There are no available videos

Close Window



Remarks

- No page reloads
- No popups
- No wizards
- Need training
- Extensible



Thanks?