

## **The Euro-Asian Knowledge Village (EAKV)**

### **Technical presentation of the existing prototype**

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1) The EAKV Portal – Organisation and management

2) The dynamic EAKV Web Site of Rural Education in Vietnam – Structure and management

## 1) The EAKV Portal

### 1.1) Organisation of the portal

Portal's url address: <http://e-msha.msh-paris.fr/EuroAsia KnowledgeVillage/Portal/>.

The portal is divided into **dashboards** which are available from the header menu or the links on the home page. The dashboards are :

- (1) **“Rural Education in Vietnam”** : Home page of the EAKV portal;
  - (2) **“Web site”** : Web site of the EAKV for rural education in Vietnam;
  - (3) **“E-library”** : Library of educational resources;
  - (4) **“Categories”** : Thematic organization of the EAKV information space;
  - (5) **“Search”** : Educational information search engine;
  - (6) **“Communication facilities”**: Communication tools for teachers and trainers.
  - (7) **“Abonnements”** : Subscriptions to the newsletters.
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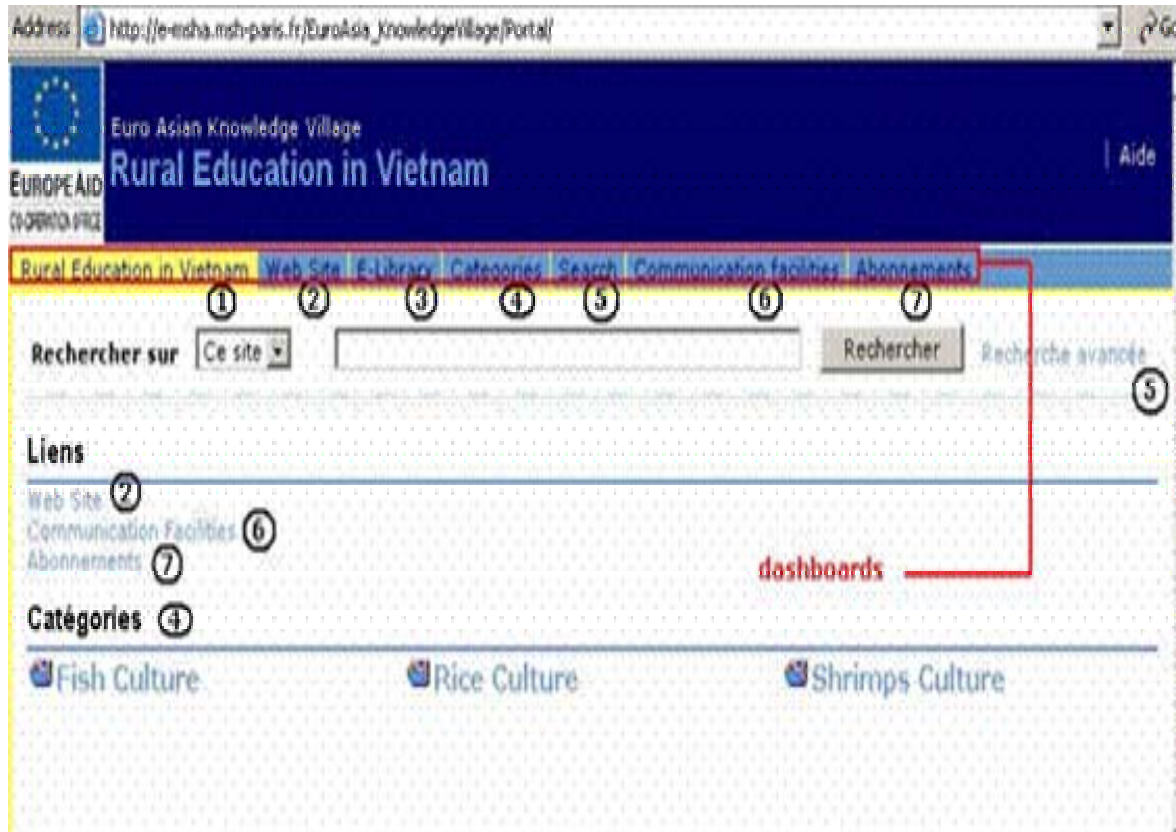


figure 1 : Home page of the EAKV portal for rural education in Vietnam

## 1.2) The library of educational resources

The library of educational resources is a **hierarchical set of folders** which contains e-resources (“documents”) or other folders.

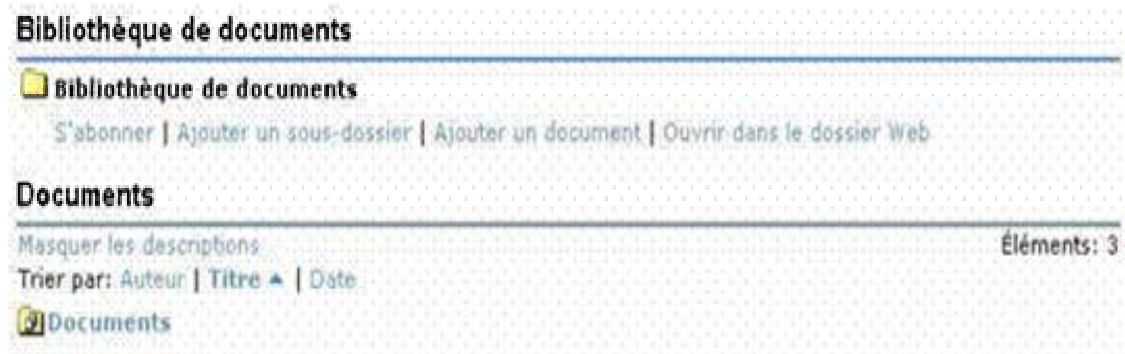


figure 2 : The elementary structure of the library of educational resources

✓ The folders are represented by small yellow icons. The resources are listed in a folder as shown in figure 3.

✓ The properties of a listed resource are: Title, File Name, Description (if not hidden), Type (represented by an icon), Date of modification, Author (not of the document but of the record)

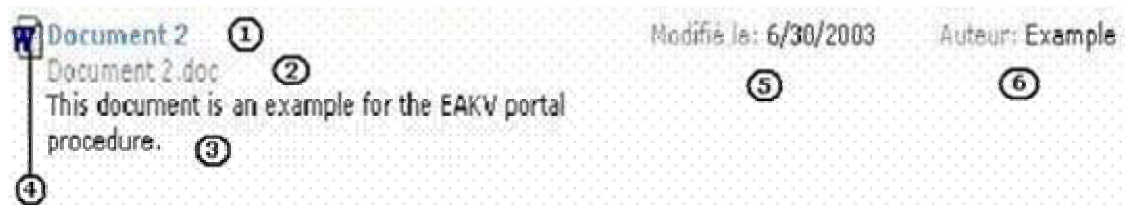


figure 3 : Presentation of a listed e-resource in a folder of the library

When clicking on the title of a resource, the visitor can download the resource. When clicking on the link “*Afficher les actions*” (the line under a listed e-resource) he can view its full properties, as shown on figure 4.


Actions	Informations
<a href="#">↩ Revenir à la vue précédente</a>	 <b>Document 2</b> Document 2.doc
<a href="#">* Historique de version</a>	
	<b>Version publiée 1.0</b> Modifié le: 6/30/2003 Dossier: /Documents/Folder 1 URL: <a href="http://e-msha.msh-paris.fr/EuroAsia_KnowledgeVillage/Documents/Folder%201/Document%202.doc">http://e-msha.msh-paris.fr/EuroAsia_KnowledgeVillage/Documents/Folder%201/Document%202.doc</a>
	Profil: Document de base Titre: Document 2 Subject: Example Keywords: test; example; EAKV Description: This document is an example for the EAKV portal procedure. Créé le: 6/30/2003 Taille: 19

figure 4 : Details and meta-data of a given e-resource

### 1.3) The thematic categories

The e-resources can be linked to one or more thematic categories.

The thematic categories dashboard constitutes the central access point to all e-resources classified by categories, instead by folders.



figure 5 : The categories

✓ First, the user chooses a category (figure 5).

✓ Then, each document of the category is listed (figure 6). The presentation principle of an e-resource is the same as in the library of folders containing the e-resources.



figure 6 : The categories documents

## 1.4) The EAKV search engine

The search engine is able to localize any e-resource either via its properties (meta-data) or its content. It proposed 2 types of search procedures:

- a simple search procedure and
- an advanced search procedure.

The **simple search** is shown in figure 7.

The screenshot displays the search interface. At the top, there is a search bar with the text "Rechercher sur" followed by a dropdown menu set to "Ce site", a search input field containing "exemple", and a "Rechercher" button. To the right of the button is a link for "Recherche avancée". Below the search bar, a section titled "Récapitulatif de la recherche" indicates the search was performed on "Ce site" for the term "exemple" and offers an option to "S'abonner à cette recherche". The main section, "Documents correspondants", lists two results. Each result includes a document icon, the document name (e.g., "Document 1", "Document 3"), a description ("Document 1.txt", "Document 3.pdf"), and a link to "An other example". For each document, there are also links for "Discuter", "S'abonner", and "Afficher les actions". The date "Modifié le: 6/30/2003" and the author "Auteur: Exemple" are shown for the first document. The second document's author is listed as "Auteur:". In the top right corner of the document list, it says "Éléments: 1-2 sur 2" with "Précédent" and "Suivant" navigation options.

figure 7 : Simple search procedure

The advanced search procedure (figure 8) proposes to find an e-resource according to :

- its profile (metadata: Dublin Core, SCORM, ...)
- its “peritextual” properties (title, keywords, thematic categories, description, ...)
- its temporal features (date of creation, modification, ...)

**Recherche par profil:**  
Tous les profils ▾

**Recherche par propriété:**

Catégories ▾	Contient ▾	fish	ET
Keywords ▾	Contient ▾	test	ET
Catégories ▾	= ▾		

**Recherche par date:**  
 Tous les documents  
 Documents Créés ▾ dans les derniers(ères)  Heures ▾

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**Récapitulatif de la recherche**

Recherche dans : "Ce site" avec une interrogation de propriété seulement.  
[S'abonner à cette recherche](#)

**Documents correspondants**

Masquer les descriptions Éléments: 1-1 sur 1

Trier par: Meilleure correspondance ▾ | Auteur | Titre | Date Précédent Suivant

 Document 3	Modifié le: 6/30/2003	Auteur:
Document 3.pdf		
An other exemple		

[Discuter](#) | [S'abonner](#) | [Afficher les actions](#)

figure 8 : Advanced search procedure

## 1.5) The EAKV communication dashboard

This dashboard is presented in figure 8. It offers 2 links to:

- video-conferences
- discussion forums



figure 8 : The “Communication facilities” dashboard

## 1.6) The subscription to the EAKV Newsletters

A web part (figure 9) that proposes (anonymous or authenticated) users to subscribe to the EAKV newsletter :

- either to the “general” EAKV newsletter
- or to one of its specialized versions (i.e. specialized with respect to a given thematic category or a library folder or again a specific dashboard ...)

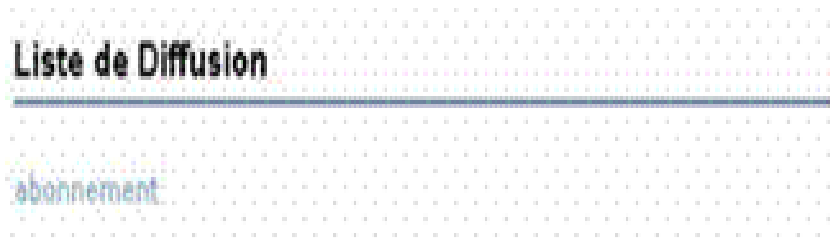


figure 9 : The “subscription” web part

## 1.7) The management of the EAKV portal

The administrator's access is :

[http://e-msh.msh-paris.fr/EuroAsia\\_KnowledgeVillage/Portal/](http://e-msh.msh-paris.fr/EuroAsia_KnowledgeVillage/Portal/).

The user has to enter his login and his password.

Principal management activities:

- **dashboard management** (i.e. a) management of the web pages of the EAKV portal and of their content; b) management of specialized portals – “**sub-dashboards**” - integrated in the EAKV portal)
  - **thematic category management** (i.e. management of the semantics of the EAKV information or knowledge space)
  - **e-resource or document profil management** (i.e. management of the meta data and the standard compliant meta data schemas of the educational resources of the EAKV library)
  - **document management** (i.e. management of the document or e-resource workflow within the EAKV portal: *editing, archiving, versioning, ...* of documents)
  - **information flow management** (i.e. last news, announcements, important links, ...)
  - **subscription management** (i.e. semi-automatic generation and distribution of the EAKV news letters)
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### 1.7.1) Dashboard management

When the authenticated user is connected, 3 links for the dashboard management appear, as shown on figure 10 :

- “Contenu” (content)
- “Disposition”
- “Paramètres” (parameters)



figure 10 : Links for dashboard management

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## 1.7.2) Thematic categories management

To access the categories management, the habilitated user has to work directly on the Sharepoint Portal Server.

In the network area, the folder “Catégories” (figure 11) contains these properties.



figure 11 : Categories viewing

When accessing on this folder, the Windows environment allows the user to create/rename/delete a categorie. The user can also set the category's properties.

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### 1.7.3) Document profile management

To access the documents profiles management, user should work from the Sharepoint Portal Server. In the network area, the folder “Gestion/ Profils de documents” (figure 11) contains these properties.

On the folder “Profils de documents” (figure 12), the user can modify or add a profile.

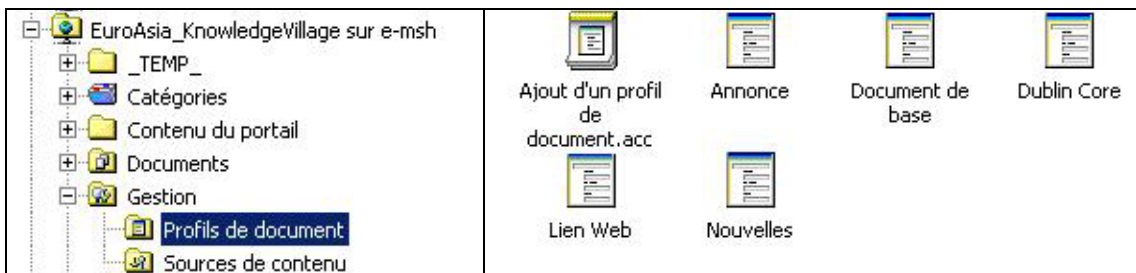


figure 11 : Profiles viewing

figure 12 : Profiles management

The properties of a profile are shown in figure 23.

The user can set the order of each item. He also can change the type (text, list, ...) and the importance (obligatory or not) of the item.

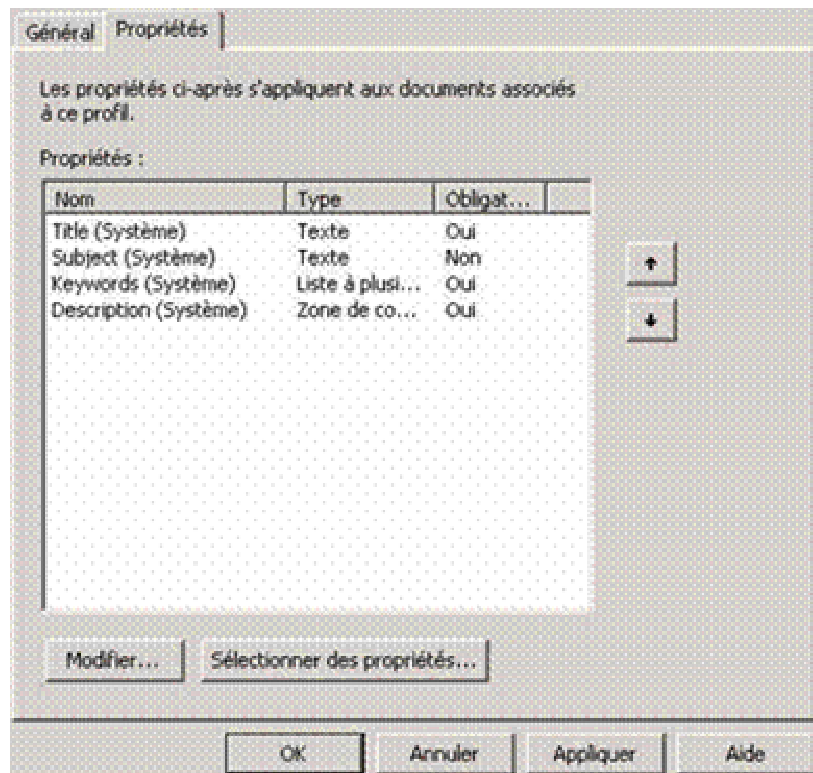


figure 13 : Document profile properties

### 1.7.4) Management of e-resources (documents)

When the user is connected, links for management appear in the library (figure I.26) :

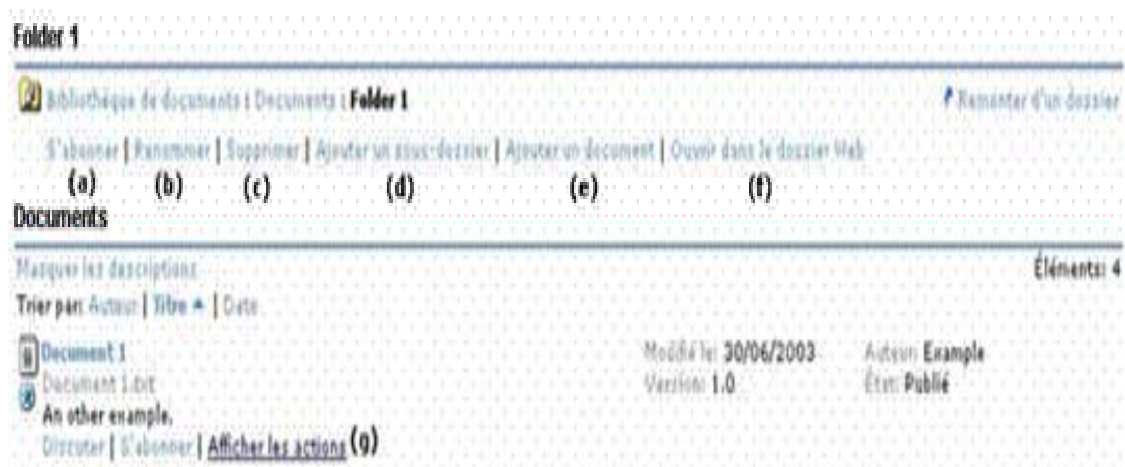


figure 14: Library management

The authenticated user can therefore manage the folders as follows :

- (a) Subscription to the folder. When a document is updated in this folder, the subscriber is informed by e-mail.
  - (b) Rename the folder.
  - (c) Delete the folder.
  - (d) Add a folder.
  - (e) Add a document and work on it (alone or within a shared work space).
  - (f) Open the folder from the network area (Usefull to access Categories management and Documents Profiles management).
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## 2) The dynamic EAKV Web Site of Rural Education in Vietnam

### 2.1) Organisation of the web site

The dynamic web site is accessible via the portal, at the url address :  
[http://e-msh.msh-paris.fr/EuroAsia\\_KnowledgeVillage/Portal/EuroAsianinVietnam/](http://e-msh.msh-paris.fr/EuroAsia_KnowledgeVillage/Portal/EuroAsianinVietnam/) .

The Home page is presented in figure 15.

The screenshot displays the home page of the EAKV web site. The page is divided into several sections:

- Navigation Menu (A):** Located at the top left, it includes links for "Contact", "Partners", and "Home".
- Left Sidebar (C):** A vertical menu with the following items: "Educational System in Vietnam", "Practical Information", "Shared Workspaces", and "Teachers and Trainers Information".
- Search Bar (D):** A search input field with a "GO" button.
- European Commission (E):** The logo of the European Commission is displayed at the bottom left of the sidebar.
- Main Content Area (F):** The central part of the page contains the following text:
  - Project Abstract:** This project aims at preparation of a complete set of didactical and technological documentation needed for design and implementation of a nation-wide internet-based virtual library of educational resources in Vietnam that will (i) supply the educational institutions and individuals with didactic materials, (ii) introduce new forms of teaching and learning activities, and (iii) play a prominent role in the future booming education market in Vietnam.
  - Objectives:**
    - Long-term objectives:**
      - to establish and develop a strategic partnership between European Union and Southeast Asia in the area of Information Technology and Communication focusing on educational issues. The "Knowledge Village" project which plays the role of the main activity at the current stage, will be a model for future projects conducted in co-operation with Vietnamese partners, and, due to "spill-over effect", will be a model for future projects to be conducted with other countries of the region.
    - Immediate objectives:**
      - to meet the strong educational needs in Vietnam that currently exist and will exist in the coming years (shortages in educational resources, in experienced instructors in most demanded subjects, in educational course- soft- and hardware, etc),
      - to prepare detailed specifications for a Virtual Library of educational resources adapted to the local curricula, to local state regulations, to Vietnamese traditions of teaching and learning, to local and international legal system (in particular, to the regulations concerning intellectual property), to the requirements of state authorities concerned with the limitations of information distribution, as well as to other local conditions (in particular, to the technical aspects of the information industry, the state of telephone lines, internet, cable networks, etc).
  - Description of the work:**
    - to specify the demands, conditions, and problems existing in Vietnamese educational system, and to produce detailed specifications for the most urgently needed didactic core materials;
    - to search for and to select the best technological expertise fitting into the abovementioned specifications and featuring the most advanced information technologies developed in the EU;
    - to prepare detailed specifications for the strategy of future implementation of the technological solutions selected on the basis of the analysis of the specimens of IT&C technology developed in the EU.
  - Milestones:** Milestones/Key Indicators.

**figure 15 : The dynamic EAKV web site**

**Explanation:**

- **Area A** : Connection button for the **management area access**.
  - **Area B** : Links to the pages of the header menu.
  - **Area C** : Main menu. Links to the headers and the corresponding pages.
  - **Area D** : Search engine form.
  - **Area E** : European commission's logo, including a link to their web site.
  - **Area F** : Content of the current page.
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## 2.2) The headings of the web site

The headers are sets of pages. When clicking on a header's name, the set of its pages appears (figure 16).

When clicking on a page's name, its content appears in the area F of figure II.1.

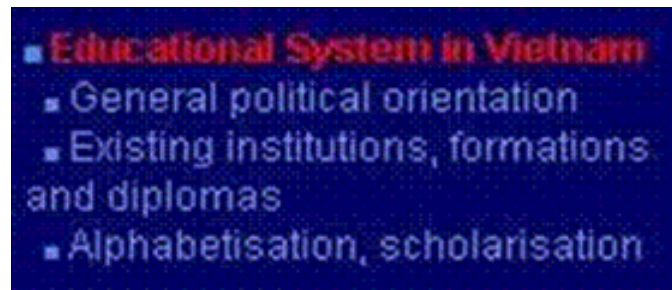


figure 16 : Headings of the main menu

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### 2.3) The pages the EAKV web site

The pages of the header menu and the main menu have the same appearance. There are 2 types of pages :

1. standard web pages (generated by the internal database of CMS);
2. calendars, directories and “archives” (generated by structured data from a relational database)

#### *The standard pages*

The standard pages are pages where the user has direct access to the content. This content is divided into **paragraphs**. Each paragraph can contain different optional elements :

- title,
- text,
- links and/or links to online documents
- still or animated images,
- etc.

#### *Calendars, directories and archives*

These are pages composed by “records” registered and maintained in relational databases (on SQL server 2000). Records are:

- events;
  - addresses;
  - bibliographical records;
  - iconographical records;
  - etc.
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## MANAGEMENT

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### 3) The management of the dynamic EAKV web site

#### 3.1) Authentication

In order to manage the EAKV web site, the user has to authenticate himself first (figure 16).

The screenshot shows a web form titled "Authentication Required" for the "/EAKV/" path. The form contains the following fields and controls:

- Domain:** A text input field containing "msh-shs.local".
- Dropdown:** A dropdown menu with "msh-shs.local" selected.
- User Name:** An empty text input field.
- Password:** An empty text input field.
- Continue:** A button located below the password field.

figure 16 : Authentication form

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### 3.2) Forms of management of the dynamic EAKV web site

The different management actions that are proposed are the following ones :

- . (1) Logout from the authenticated access.
- . (2) Create a new heading
- . (3) Create a new page in an existing heading
- . (4) Create a new page in the menu bar
- . (5) Edit your “Home” page
- . (6) Edit your “Partners” page
- . (7) Edit your “Contact” page
- . (8) Manage an existing heading
- . (9) Manage an existing page

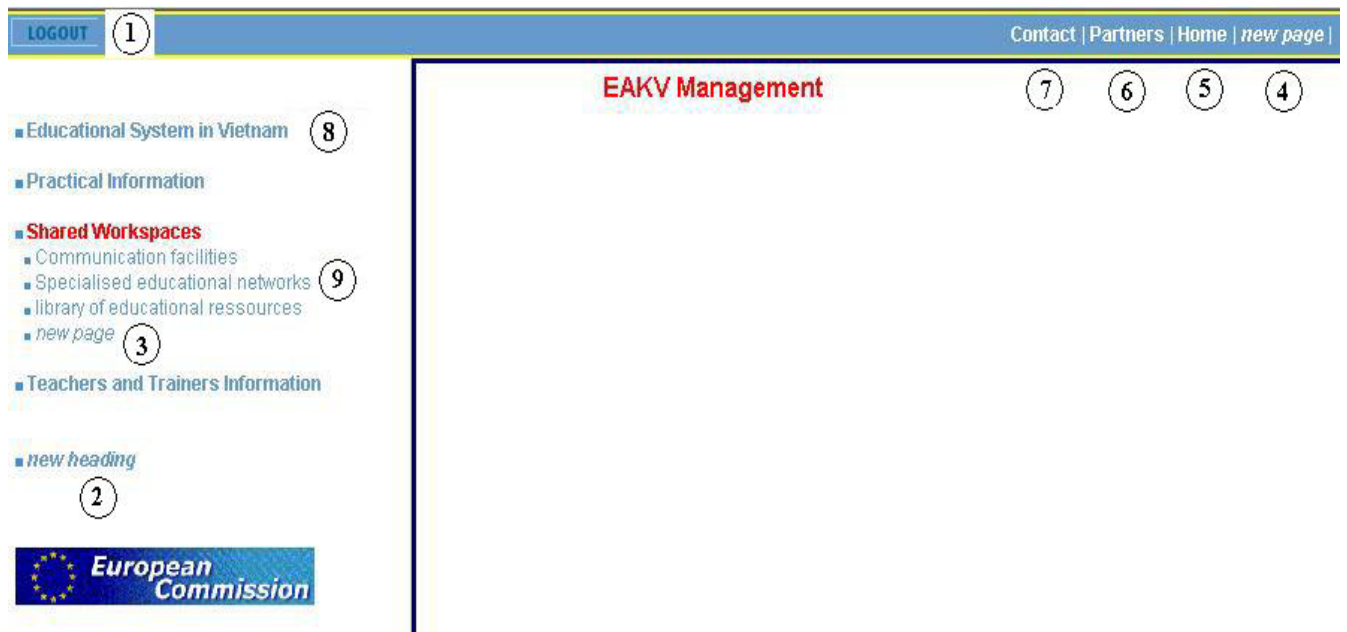


figure 17 : The management area



The prototype of the EAKV portal - technical presentation

