

611967

CAMEI

**Coordination Actions in the scientific era of Medical
Education Informatics for fostering IT skills for healthcare
workforce in the EU and USA**

D3.1 Report of the CAMEI Web-portal

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FOREWORD

The CAMEI project coordination action aims to coordinate research activities and policies towards the development of renewed educational material and programs for IT skills for healthcare workforce in EU and USA. To this extent CAMEI is aiming to boost new trends for acquiring new knowledge by the healthcare workforce in EU and USA with respect to the implementation of eHealth systems in practice; to foster trans-national access to research infrastructures from both EU and USA partners establish a network of best practices on Medical Education Informatics.

This deliverable created as part of Work Package 3. WP3 include tasks undertaken to help raise the visibility of existing programmes, creation of new educational material based on old one and creation of new innovative educational policies. Specifically, this Report accompanied the actual deliverable which is the web-portal. The web-portal act both as a promotional to the CAMEI site and as a collaborative environment that will facilitate networking and partnership between USA and EU training organisations for healthcare workforce on IT skills by motivating actors to initiate research, development of policy cooperation between them. The web-portal as a live space will be updated regularly .

The portal include a collaborative environment that facilitates the communication and interactivity of the CAMEI network for the sharing and exchange of ideas, know-how and results in the domains of new emerge technologies for training healthcare workforce on IT skills, new ways of sharing, reuse, repurposing and creation of educational material applied in different context and promotion of renewal of programmes. It is also used as an internal tool for collaboration inside the consortium.

The CAMEI portal is based upon mEducator technologies that will allow the sharing, repurposing and retrieval of the content of the portal as educational resources, which will be able to be used directly at selected learning content management systems.

The CAMEI web-portal will be kept active for a further 3 years upon project completion.

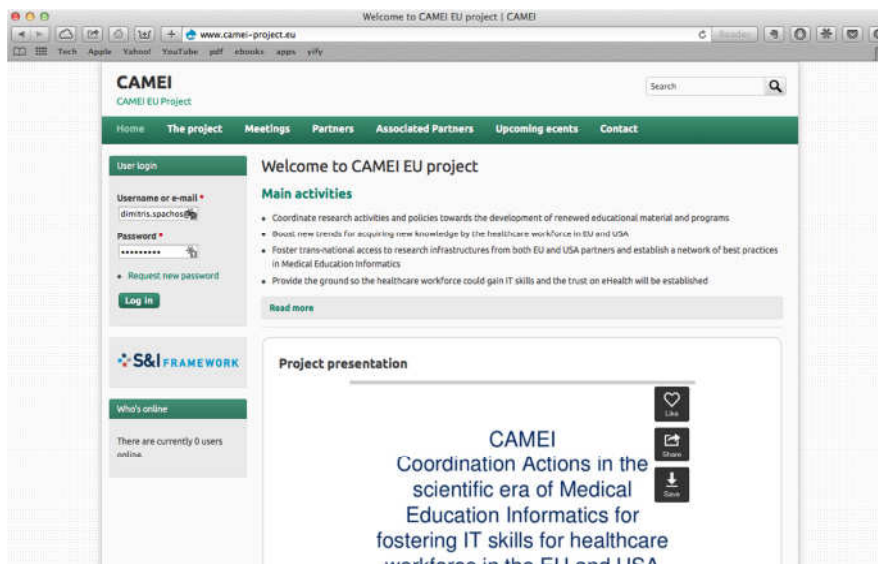
The CAMEI portal will include appropriate synergy with the MoU Roadmap 'Call to Action Wiki'- <http://wiki.siframework.org/EU-US+eHealth+Cooperation+Initiative> - and facilitate access for interested stakeholders from the CAMEI activities (E.g. direct links to wiki, highlight wiki articles, motivation to participation, etc.).

1. THE CAMEI PORTAL

1.1. Website address

The CAMEI portal is located at

<http://www.camei-project.eu>



The following credentials can be used to login to the members area:

Username:

Password:

Alternative website addresses in order to increase the visibility of the CAMEI portal are:

<http://www.ehealthskills.eu>

<http://www.healthitskills.com>

1.2. Website structure

The web site is built by the coordinator using the open source (no license fee) content management system Drupal. The coordinator will maintain the site during the entire project lifetime.

The website includes static and dynamic information, search and communication functionalities, and it is structured as follows:

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1.2.1. Public content

- Home
 - The project
 - Brief description
 - Main activities
 - Expected impact
- Meetings
 - Kick-off meeting, Thessaloniki, Greece
- Partners
 - Northern Research Institute
 - Aristotle University of Thessaloniki
 - Karolinska Institutet
 - Universidad Politécnica de Valencia
- Associated Partners
 - Advisory Board
 - Become an associate partner
- Upcoming ecents
- Contact

The public part of the portal contains information about the project, announcements, information about partners, upcoming events and contact forms. Also, contains a form for institutes the wish to become associate partners of the project.

The calendar of events gives a brief view of the related upcoming events of the project:

Upcoming events

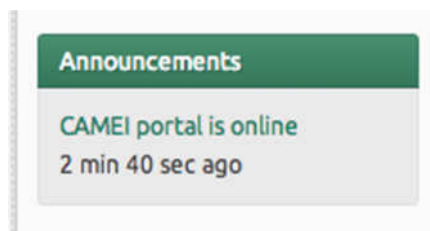
Week Day Year

March 2014 « Prev Next »

Sun	Mon	Tue	Wed	Thu	Fri	Sat
23	24	25	26	27	28	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

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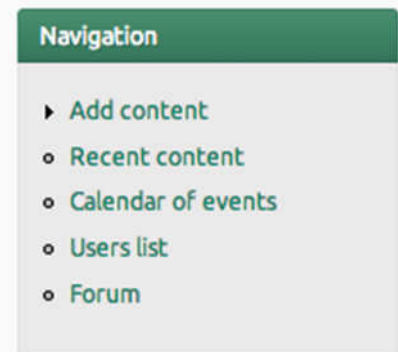
In the left sidebar, there is a block that contains the most recent announcements of the project:



1.2.2. Private content

A. Navigation menu

- Add content
- Recent content
- Calendar of events
- Users list
- Forum



Perhaps the most useful function is the 'Add content' function, where members can add new content to the portal. The following content types are supported:

Announcement

Type of content to formal notice other partners about something.

Article

Articles are time-sensitive content like news, press releases or blog posts.

Event

Contains every type of event such as project meetings, deadlines etc

Forum topic

A forum topic starts a new discussion thread within a forum.

Project meeting blog post

A project meeting specific post.

Webform

Create a new form or questionnaire accessible to users. Submission results and statistics are recorded and accessible to privileged users.

WP content

A generic type of content for use with workpackages. Use this if you want to post content that belongs to workpackages and may include body text, attached files etc.

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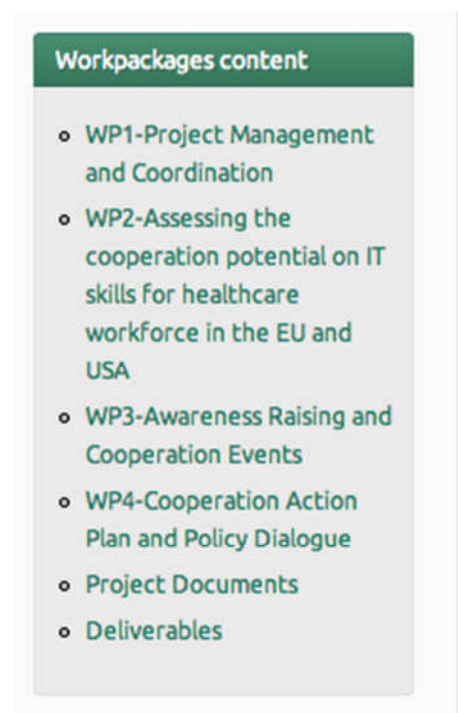
The members of the CAMEI portal can be automatically notified via email when new content is available, by using the notify function of the application:

Active rules

NAME	EVENT
Password notify change Machine name: rules_password_notify_change, Weight: 0	User has logged in
Announcement email notification Machine name: rules_announcement_email_notification, Weight: 0	After saving new content

B. Workpackages menu

- WP1-Project Management and Coordination
- WP2-Assessing the cooperation potential on IT skills for healthcare workforce in the EU and USA
- WP3-Awareness Raising and Cooperation Events
- WP4-Cooperation Action Plan and Policy Dialogue
- Project Documents
- Deliverables



In the private section of the portal, the project members can collaborate using the above menus and functions of the website.

In the 'Recent content' page, there is all recent content that (posts,files etc) that has been uploaded to the website, ordered by the date of creation/update:

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The screenshot shows the CAMEI EU Project web-portal. The header includes the CAMEI logo, the text 'CAMEI EU Project', a search bar, and a navigation menu with links: Home, The project, Meetings, Partners, Associated Partners, Upcoming events, and Contact. The main content area is titled 'Recent posts' and features a sidebar with 'S&I FRAMEWORK' logo, user links (My account, Log out), and a 'Navigation' menu (Add content, Recent content, Calendar of events, Users list, Forum). The main posts table is as follows:

Type	Title	Author	Replies	Last Post
Event	CAMEI workshop at BHI new	staconst		Mon, 03/31/2014 - 16:43
Event	CAMEI at the CBMS Conference in New York new	staconst		Mon, 03/31/2014 - 16:39
Event	CAMEI at ehealth Forum in Athens new	staconst		Mon, 03/31/2014 - 16:19
WP content	Template for deliverables new	staconst		Mon, 03/31/2014 - 16:14
Forum topic	Tasks to do for WP1	Dimitris Spachos		Fri, 03/22/2013 - 12:29
Forum topic	WP1	Dimitris Spachos	1	Fri, 03/22/2013 - 12:28

In the 'User list' page, members can find quick and easy information about other members of the portal:

The screenshot shows the 'Users list' page. It includes a search filter 'Name contains:' with an input field and 'Apply' and 'Reset' buttons. Below is a table of users:

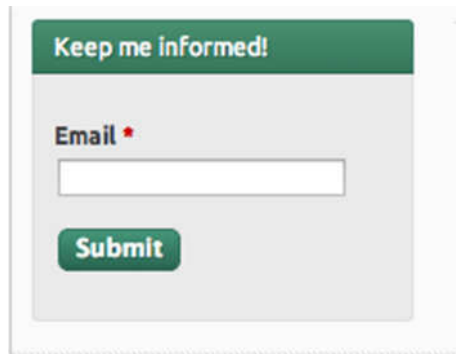
Name	E-mail	Skype ID	Partner
staconst	staconst@gmail.com		Northern Research Institute
mnikol	mnikol@med.auth.gr		Aristotle University of Thessaloniki
Dimitris Spachos	dimitris.spachos@gmail.com	dimitris.spachos	Aristotle University of Thessaloniki
Nabil Zary	Nabil.Zary@ki.se		Karolinska Institutet
Vicente Traver ...	vtraver@itaca.upv.es	vtraver	Universidad Polit3cnica de Valencia

In the 'Workpackages' section, members can upload content related to the workpackages of the project, e.g. :

The screenshot shows the 'WP1-Project Management and Coordination' page. It features a 'View' button and an 'Edit' button. The main content is titled 'Template for deliverables' and includes the text 'Submitted by staconst on Mon, 03/31/2014 - 16:14'. Below this is a paragraph: 'This is a suggested template for the CAMEI deliverables.' and a 'Read more' button. An RSS icon is visible at the bottom left.

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In the left sidebar, there is a newsletter subscription field:

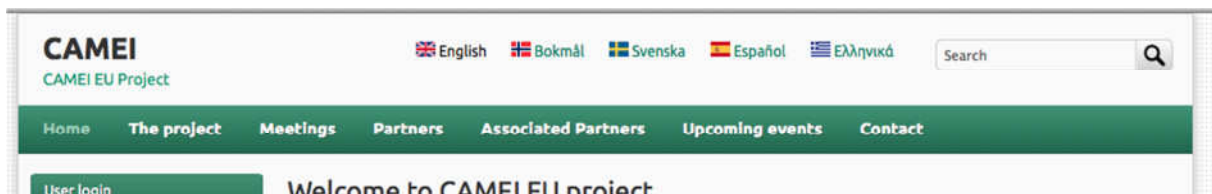


A newsletter subscription form with a green header that says "Keep me informed!". Below the header is a text input field labeled "Email" with a red asterisk indicating it is required. Below the input field is a green "Submit" button.

1.2.3. Multilingual content

The application supports multi language content in the following languages:

- English (English)
- Greek (Ελληνικά)
- Norwegian Bokmål (Bokmål)
- Spanish (Español)
- Swedish (Svenska)



Currently, not all content is translated. The translation is in process.

1.2.4. Use of standards

The CAMEI website is designed to be conformant with most of the latest W3C standards; in particular <http://www.w3.org/standards/webdesign>. This means the content and layout of the website should appear similar on most (if not all) modern web browsers.

However, it is recognized there are still many older web browsers in use, so the website has also been designed to be fully accessible to some of the more popular legacy browsers (including the most popular tablet and smartphone browsers).

No assumptions have been made about end-user equipment therefore the CAMEI website is designed to scale to any size of screen.

1.2.5. Statistics

The CAMEI website is currently been tracked under Google analytics service. Monthly reports will be generated and send to the partners.

1.3. Website infrastacture

The website is currently running on a Linux server with 8 GB of RAM and 80GB of hard disk space.

The full specifications are:

Processor	
Processor family:	Intel® Xeon® E5-4650 (8 core, 2.7 GHz, 20MB, 130W)
Number of processors:	2
Cores available:	8

Memory	8GB
Maximum memory:	8GB
Memory type:	2R x4 PC3L-12800R-11

I/O	
Expansion slots:	(6) PCIe
Network controller:	1Gb 331FLR Ethernet Adapter 4 Ports per controller

Storage	80GB
Drive bays:	(5) SFF SAS/SATA/SSD Hot plug, depending on model
Supported drives:	Hot plug SFF 2.5-inch SAS; Hot plug SFF 2.5-inch SSD

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Storage controller:	(1) Smart Array P420i/ZM
Software	
Software:	Ubuntu Server 10.04 LTS 64bit
Web server	Apache web server v2
Database	MySQL database server v5.5
Script	PHP v.5.3.x

The server is protected by a software firewall running on Ubuntu Server 12.04 LTS.

The application and the application data (including health records) are automatically backed up every 24hours:

The last 25 backups are kept on the server for immediately restore.

All every day backups (from the beginning of the development of the web site) are kept in a different storage at AUTH laboratory in the university campus. The transfer of the files to the above external storage is being made in a weekly basis from the web site administrator.

2. CONCLUSIONS

Design and development of the CAMEI web-portal includes the following sections: home, project support services, project partners, news & events (e.g. forthcoming FP7 calls), newsletter, links, downloads (e.g White paper). The portal includes a collaborative environment that will facilitate the communication and interactivity of the CAMEI network for the sharing and exchange of ideas, know-how and results in the domains of new emerge technologies for training healthcare workforce on IT skills, new ways of sharing, reuse, repurposing and creation of educational material applied in different context and promotion of renewal of programmes. It will be also used as an internal tool for collaboration inside the consortium. The CAMEI portal is based upon mEducator technologies that allow the sharing, repurposing and retrieval of the content of the portal as educational resources, which will be able to be used directly at selected learning content management systems.