Web Portal Development Platform

Overview

The FORTH-ICS Portal Development Platform is the outcome of an evolutionally process, aiming to provide the means for the development of inclusive Web-based interfaces that are capable to adapt to multiple and significantly different user profiles, building on well-established Design for All principles and adaptation-based methods and techniques. Therefore the aforementioned platform can address the needs of the widest possible end user population, such as non-expert IT users, the very young and the elderly, people with disability, users on the move.

Web applications developed by means of this platform provide:

- Conformance to W3C-WAI **accessibility guidelines**.
- **Adaptations based on user profile** information, such as language, disability (e.g., blind, low vision, color blind, motor impairments).
- **Adaptations based on context** specific parameters, such as user's device, display resolution, input devices, etc.
- **Adaptations to the interaction modalities** and **user interface elements** supporting navigation alternatives and presentation alternatives for interactive elements such as buttons, links, tabs, etc.
- **Adaptations to user accessibility requirements**, such as font size, text entry method, color settings, table linearization, etc.

The Web Portal Development Platform has been employed since 2003 in the development of several web portals, including:

- the General Secretariat for Research and Development portal *(www.gsrt.gr)*
- the SYSPEAP portal *(www.prosvasi-amea.gov.gr)*
- the AmeaNet portal, providing Universally Accessible eServices for Disabled People *(www.ameanet.gr)*
- the Greek eGovernment portal, providing access to eGovernment Services to disabled people *(www.amea.gov.gr)*
- the portal of the Hellenic Parliament Foundation for Parliamentarism and Democracy *(foundation.parliament.gr)*
- the European Design for All e-Accessibility Network – EdeAN *(www.edean.org)*
- the Greek National Network GR-DeAN *(www.e-accessibility.gr)*
- the World Hellenic Inter - Parliamentary Association portal *(www.whia.gr)*

Target Domains

The FORTH-ICS portal development can be applied for the creation of accessible and adaptable solutions and services in any web oriented application development scenario. FORTH-ICS based on the aforementioned platform can provide personalized solutions to meet the concrete requirements of third parties.

Additional Information

Two portals recently developed using the Platform are:

- the General Secretariat for Research and Development portal. The portal's main objective is information diffusion over the scientific, research and industrial parties.

- the SYSPEAP portal. SYSPEAP is an online platform system responsible for the Collection, Production, Enrichment and Exploitation of Multimedia Content that aims to promote the equal participation of people with disabilities in online information and multimedia content.

General Secretariat for Research and Development portal

SYSPEAP portal

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