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**ID3.23 PDP client integrating WP7 positioning and navigation services**

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Abstract (for dissemination): Describes how software created and used in WP7 was or will be integrated into the Personal Development Planner (PDP).

Keywords List: PDP, Learning Path, Hybrid Personalizer, Graphical Planning Tool

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1. Introduction
The goal of this document is to describe how software created and used in WP7 was or will be integrated into the Personal Development Planner (PDP).

Two products of WP7 are candidates for inclusion in the PDP:
1. The Hybrid Personalizer (HP).
2. The Graphical Planner Tool (GPT).

Details of both tools can be found in [1].

1.1. Acronyms

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2. Candidates for inclusion in the PDP

2.1. Hybrid Personalizer
The first candidate for inclusion in the PDP is the HP tool. The HP has been added to the web version of the PDP tool. Previously users had to determine the order in which to perform their learning activities themselves. Since the addition of the HP, users can request a suggested ordering from the system. By pressing the button Run HP, the learning activities will be reordered, according to the calculations of the HP. Figure 1: PDP extended with Run HP button shows the screen in which the ordered list of learning activities is shown and where the Run HP button can be used to reorder the learning activities.

The HP can use user preferences, ratings and the competence levels to which learning activities are linked to propose an ordering. In the PDP, only the competence levels to which learning activities are linked are used, but it shows how the HP can be integrated. This is because in the web version of the PDP, there’s no way to rate learning activities or to specify user preferences. As the web version of the PDP tool will be replaced by one or more portlets in Liferay, it was decided not to extend the PDP with functionality for ratings or user preferences.
2.2. Graphical Planning Tool

The second tool for inclusion in the PDP is the GPT. In the past, WP7 developed the GPT to let users graphically explore existing learning paths according to their goals and preferences and to create their personal plans. The GPT is a standalone tool, using a custom data model and without support for authentication. A modified version of the GPT will be used in two locations, both in the Liferay version of the PDP tool and in the Learning Path editor. The GPT modifications are required to integrate it in Liferay: adapting the common data model, running it in a portlet and using Liferay’s authentication and authorisation. The required work on the PDP, Learning Path editor and the GPT were too much to complete it already. It is work in progress and will be realized before the end of the TENCompetence project.

The Liferay version of the PDP tool is an implementation of the PDP via portlets in Liferay. It will use the modified GPT as a graphical modeller to create the order of the learning activities in user’s PDPs. Building the PDP is work in progress.

The Learning Path editor is a tool for which development started in the beginning of 2009. The task force working on this has as goals to create an editor/manager for learning paths. The tool should be part of the integrated system (using its data model and authentication) and the created learning paths should conform to the Learning Path specification ([2]). The Learning Path specification was created before as part of the WP7 work. Like the new PDP, the Learning Path editor uses the GPT as a graphical modeller, in this case to model the selection and sequencing of learning activities and possibly contained learning paths.

Figures Figure 2: Overview, Figure 3: Metadata and Figure 4: Design show the screens of the Learning Path tool as they were at the end of September. Because it’s work in progress, these screens probably have evolved further since then.
Figure 4: Design has been based on the GPT’s graphical modeller and will be present in both the Learning Path tool and the new PDP tool. The screen uses the same visual concept as the GPT: coloured bubbles which can be dragged onto a canvas and can be put in a place and order convenient to the user.
Figure 3: Metadata

Figure 4: Design
3. References


Links checked on 30-09-2009.