A DSL creation for a simplified CMS use

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Abstract. The websites development was simplified over time, notably via the Web standardization, but also through the use of CMS [1].

However, the use of the various available tools still requires technical knowledge, that web designers have (concerning CMS itself, web standards, or databases), unlike many end users (which can be an obstacle to the web site creation).

In this paper, we propose a simplification of the website creation for end users and, for web designers, an improvement of the configuration of one or several sites.

Allowing end users to create their websites will enable them to implement their ideas directly, without being slowed by technical points, but also to reduce the gap between concepts and practice. Simplification for web designers will let them to configure and manage easier and quicker their website(s).

So we create a DSL[2] [1] and its metamodel[2] to represent the general structure of a website configured via the WordPress CMS (which is the most used one currently [3]). By using the DSL metamodel and the mind mapping (via a software[4] extension), we enabled end users to create their site simpler.

For web designers, we integrate the DSL in an IDE[3], via an Eclipse product[5] and the use of the XText Eclipse plugin [6], to have a configuration file for one or several websites (and therefore to configure them remotely).

Keywords: Website developement, CMS, DSL, Mind mapping

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[3] Integrated Development Environment

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