

Advanced internet programming

Project no. 11 – Content Management Systems

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CMS's are software's that are helpful in creation, management and modification of created websites without an extensive technical knowledge. CMS allows its users build sites without the necessity of writing the code from scratch. Instead of creating your own system of web pages, imaginary libraries, and other different functions, the CMS handles those basic functions and allows one to take care of more pressing issues.

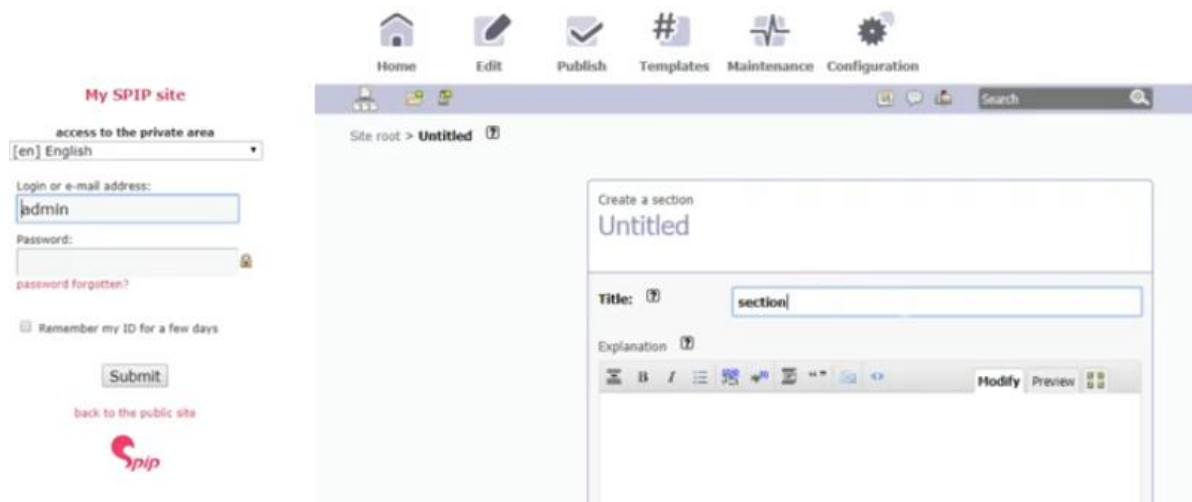
There is an overabundance of CMS apps, while I shall focus mainly on two: SPIP and MODX.

SPIP



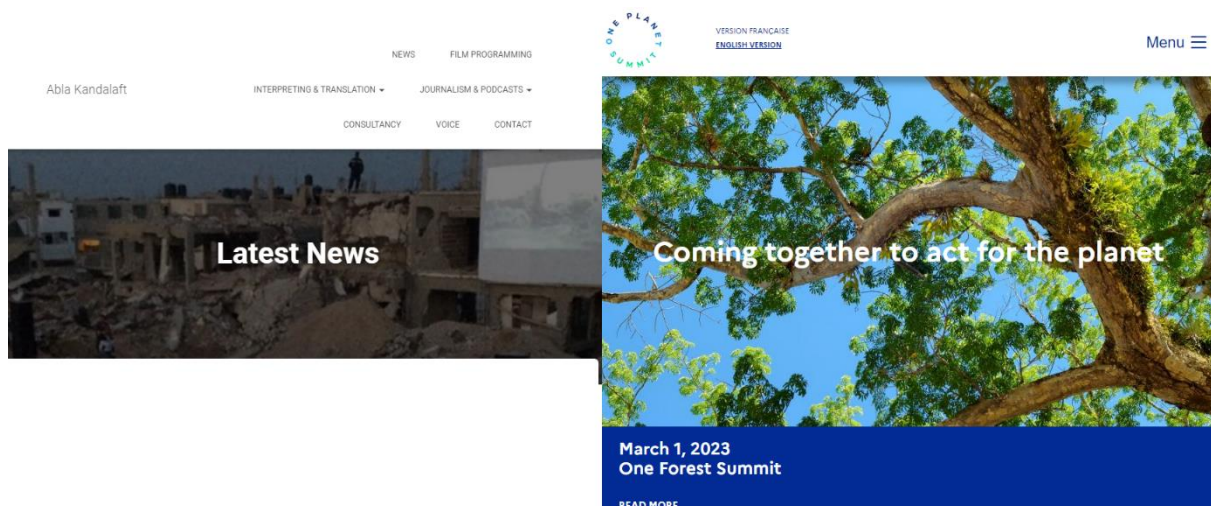
SPIP is a freeware CMS, distributed under GNU/GPL license. It was born in 2001 at the initiative of minirézo, a community defending freedom of expression on the internet. It is perfect for managing magazine type sites – ones which are made up mostly of articles and news items, inserted in a hierarchy of sections that are nested one within another. It completely separates and distributes three kinds of tasks: the graphic design, the editorial input, and the editorial management. The webmaster and all of the site contributors are relieved from a number of tedious aspects thanks to it.

To create a webpage through SPIP we need to have an account, which gives us admin/webmaster privileges



The user interface is simple and minimalistic. After logging in, we have variety of options to edit, publish, or maintenance the articles we create. There are also different configuration options, templates and other tools.

SPIP is an interactive and interesting tool, which allows one to create professionally looking sites with clean and intuitive design. Here are some examples of such sites:



MODX (Revo)



MODX is an easy-to-use Content Management System and App framework rolled into one. It has been updated with additional features that makes its possibilities limitless, while also being refreshingly intuitive to work with. There is an active community which is always there to help too.

MODX is available at free trial on MODX cloud site. From there, the MODX will create a Cloud for us from which we can manage the sites content and code.



The MODX provides its users with its own templates, into which one can implement their own HTML, CSS and Javascript.



MODX also provides one with intuitive menu with all its setups, settings, file management system and resources, from which we can pinpoint content than can be viewed at a unique URL, default content types (CSS, JS, JSON, RSS, XML, TXT), and the custom content types which can be defined easily.



Overall, the CMS systems allows its users to create, modify and manage HTML pages with easy and without any extensive programming knowledge. They can be at great help for people that are in need of their own website, while having minimum experience in internet programming. The only issue for a new user might be starting up the CMS service. The other issue can be the fact, that many CMS services are for use at paid subscription mostly, and the freeware one often provide less features and might be harder and more clunky to learn.