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Master thesis

The concept of children entities is extended at the tree composed of all the children entities of every children entity, in a recursive mode.

3. Related work

other works that address the same problem

There are some projects that address the crud generation problem. Most of them are based on PHP and are listed below.



3.1. Academic works

Automatic programming and software generation are two fields where the scientists and ICT technician have worked in the past years.

These techniques are applied to different fields in real life and they do not only refer to user interface and web application generators.

3.1.1. WebML

Web Modeling Language[XXX-Web Modeling Language (WebML): a modeling language for designing Websites] is a notation for specifying complex websites at the conceptual level, enabling high level description of a website considering its structural model, composition model, presentation model and personalization model. It is associated with a graphic notation and a textual XML syntax, platform independent and guarantees a model-driven construction of complex sites.

It was invented at Politecnico di Milano by Stefano Ceri and Piero Fraternali.

WebML is based on different previous work including HDM [XXX-HDM - A Model-Based Approach to Hypertext Application Design.], HDM-Lite [XXX-A Conceptual Model and a Tool Environment for Developing More Scalable], RMM [XXX-RMM: A Methodology for Structured Hypermedia Design],OOHDM [XXX-Web Application Models are More than Conceptual Models] and Araneus [XXX-Design and Maintenance of Data-Intensive Web Sites].

A first CASE environment, Autoweb System [XXX-Model-Driven Development of Web Applications: the Autoweb System] has been detailed in the year 2000. It is based on HTM-Lite and it consists in two phases, the generation of the database and meta-database and the implementation of the web application.