



European Project Semester

PROJECT OUTLINE

Project dates: March 2017 - June 2017

Title: Analysis and development of a database and a web site for the management of the electrical fittings of the PRIMES platform

Project activity areas:

Computer science
Web design

Keywords:

database, MySQL, man/machine interface, html/php

Tutor's name and coordinates

Client – End-user: PRIMES Platform
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Project origin

Research

Project technical background:

The aim of this project is to analyze the electrical fittings and devices of the PRIMES platform (research platform). Many information about the fittings and their instruction manuals (datasheets...) have been collected by previous students in an Excel sheet. All these information have to be organized in a database in order to be able to reuse them through a web site. The knowledge base will be developed by means of a Mysql database.

Based on an existing database and its man/machine interface, the students will have to analyze it in order to understand the functioning, to extract information, to determinate the requirements for a new knowledge base which will have to be interoperable with the existing information system of the PRIMES platform.

The final objective is to integrate this knowledge base into the global decision support tool of the PRIMES platform for an efficient management.

Studied topics:

The first step will be to understand and analyze the existing information which has been collected into the actual database. The lacks of the existing database will have to be defined and the requirements for the new knowledge base will have to be specified. The missing information will have to be collected. The existing man/machine interface will have to be analyzed in order to define the new requirements. The new knowledge base will have to be user friendly.

Secondly, a standard procedure will have to be formalized for identifying the fittings and devices and their users along time.

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Thirdly, the existing structure and tables of the database will have to be improved as well as the man/machine interface. The students will have to specify a model for the new knowledge base on the basis of the existing one. The new tables and interfaces will have then to be developed and implemented using the following languages and tools: HTML, MySQL, PHP...

Lastly, a procedure for the validation of the new knowledge base will have to be defined for the step of verification/validation by the end-user.

Deliverables:

- 1) Results of the analysis of the existing database and interface, proposals for improvements.
- 2) Final project report