Technical University of Munich, Department of Informatics

Chair for Network Architectures and Services
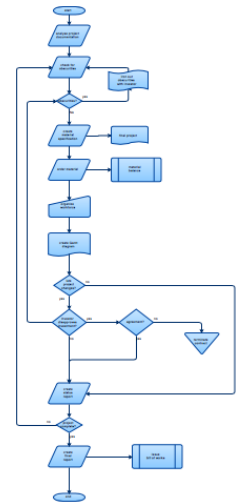Prof. Dr.-Ing. Georg Carle

HiWi

ChairMan - Software Support for the Management of Student Projects

Motivation

Our chair offers student research projects (Bachelor's or Master's theses) to about 150 students each year. For each project a significant amount of administrative work needs to be performed by advisors and the chair's secretary, administrator and professor. Due to distributed responsibilities, it is difficult to keep track of the status of each project. Finally, after the completion of a project, its results need to be preserved in a way which makes them easy to access.

For these purposes, we designed *ChairMan*, a repository-based system supporting the life-cycle of student projects. ChairMan provides templates, how-tos and forms to our students. In turn, students cooperate by adding filled in forms and results of their work to the repository. The administration of the repository, e.g., adding new projects, handling existing ones, and creating policies for access control, is automated by a tool.

Currently, the ChairMan system is a proof of concept and a starting point for further work: Various functions for administration and maintenancene need to be designed and implemented. Furthermore, novel features need to be developed. Examples include data mining and automatic generation of reports, which can later be incorporated into the chair's website to provide information about currently running and finished theses.

Tasks

Your tasks include the design and implementation of new features for Chairman under the instructions of your advisors.

Requirements: You need to be familiar with Linux (Ubuntu/Debian) and have a basic understanding of the administration of the Apache webserver as well as Subversion[a] repositories. Furthermore, you need good programming skills in Python. Lastly, a solid understanding of web technologies, e.g., HTML, CSS/SASS including Frameworks (e.g. Bootstrap) and static website generators (e.g. Jekyll, Hugo, Middleman, etc.), would be beneficial.

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[a]We use Subversion, as Git does not support fine-grained access control.

Contact

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