

A Programming Environment in the Cloud

Summary

Programming is moving into the cloud and so are programming environments. This thesis develops a simple programming environment (IDE) in the cloud. The programming environment will allow the editing of code written in Wikitext, the wiki markup language of Mediawiki. The code is represented by a Wiki Object Model (tree) that can be access using a REST API and/or Java.

Work Results

- Selection of base technology
 - Reuse or make, i.e. comparison of Eclipse Orion vs. self-made web app
- Definition of appropriate software architecture
 - Client-side vs. server-side programming
 - Latency and session state considerations
 - Single language (Javascript) vs. multi-language solutions
- Design and implementation of matching web application
 - On top of existing Sweble parser and database infrastructure
- Discussion and evaluation of strengths and weaknesses

Advisor

Dipl.-Inf. Hannes Dohrn, hannes.dohrn@fau.de
Prof. Dr. Dirk Riehle, dirk.riehle@fau.de

Open Source Research Group
Computer Science Department
Friedrich-Alexander University
<http://osr.cs.fau.de/fun>