Thesis Proposal (MA, BA, IDP)

eLearning Statistic Modules
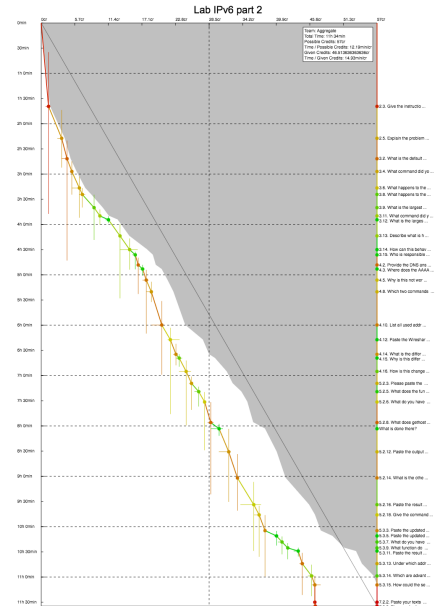
Outline

Probably you heard of or even participated in one of the iLabs (http://ilab.net.in.tum.de/, http://ilab2.net.in.tum.de/) already. The iLabs are running within a PHP eLearning environment. As this environment is a self-development, we can implement new functionality easily.

At the moment we are collecting rough estimates on how much time is spent where in an exercise. You can see an evaluation on the right.

Many more evaluations would be interesting such as, what is the most interesting exercise part?, where did students loos most credits?, etc.

In this work you will research possible statistics that could support your fellow students in the iLabs. You will document, implement and evaluate them. An especially interesting part is the evaluation as you will be able to work directly with real students. You can directly interact with them as they can use your features once enabled...

Possible Structure

- Analysis
    - o Analyze the problem domain.
    - o Identify relevant research questions that you will work on.
    - o Present relevant technology.
- Related work
    - o What do other projects do that answer your questions?
- Design
    - o Which components do you need?
    - o Which are options for the design? Why are your choices good?
- Implementation
    - o Relevant details such as frameworks used.
- Evaluation
    - o How well does it work?
        - ▪ Metrics!

Requirements

Curiosity, Joy to work in a team, Knowledge in Java.
Ability to write good code (including unit tests and documentation).

Contact

If you are interested, please send an email briefly explaining why you think to be the right person for this thesis to:

Marc-Oliver Pahl (pahl@net.in.tum.de)
http://s2o.net.in.tum.de/

Image sources:
Author: Marc-Oliver Pahl

Distributed Smart 2pace Orchestration System

ds2os.org/