



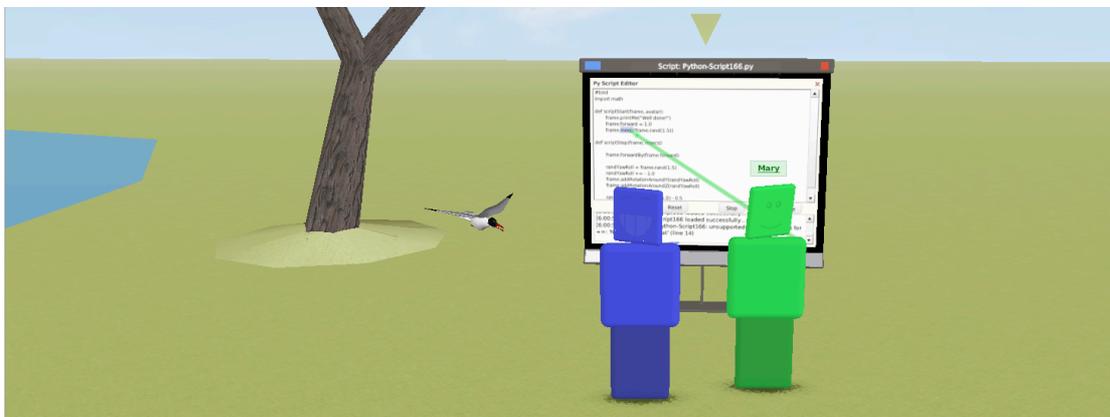
XP Forums: Extreme Programming in Virtual Environments



Bachelor Project Proposal, WS 2008/2009 – SS 2009
Software Architecture Group, Prof. Dr. Robert Hirschfeld

XP Forums

XP Forums will be an extension to Qwaq Forums to directly support Extreme Programming (XP) activities in a virtual collaboration environment.



Tools are to be developed that aid software developers in their daily work, for example in creating artifacts like user stories, in holding team meetings, or in programming in pairs.

Qwaq Forums

Collaboration tools increase the performance of an organization. Whether your goal is to expand top-line revenue with more effective sales and marketing, or improve the bottom line with more efficient operations, an investment in collaboration offers a direct path to improved organizational performance.



Qwaq Forums are online workspaces with all the tools, data, and interactivity that people need to explore ideas, resolve issues, track progress, and be more productive. Easy to set up,

highly participatory, always available, and secure, Qwaq Forums provide a spatial context that fosters new levels of communication, creativity, problem solving, and efficiency.



Like offices and meeting rooms, Qwaq Forums are places where users can go to work, to collaborate with others, and to identify and solve issues. Whether you are working internally with other team members and groups, or need to collaborate with supply chain partners or customers, Qwaq Forums have powerful features that simplify setting up and working in highly collaborative environments. (www.qwaq.com)

Implementation

The project will analyze techniques of the XP development processes and will provide appropriate support in the XP Forums virtual collaboration environment.

Qwaq Forums offers developers a *Python* scripting API to develop and integrate tools and applications into the virtual environment. Since Forums itself is written in *Croquet* and *Squeak*, we expect project participants to be experienced with *Smalltalk* development to extend Forums beyond the predefined extension points if necessary. While most of the artifacts are created within XP Forums, they should be made available for Web access. For that, *Seaside* Web application framework is a prime candidate.

Organization

A group of about six to eight (6-8) students may participate in the project. Organization and tasks will be determined by the project participants. The project will be carried out at the Hasso-Plattner-Institut in Potsdam. Project participants are expected to communicate with our partner via Qwaq Forums, email, chat, or voice on a regular basis. In WS 2008/2009, participants will work on initial design sketches and prototypes. Main steps in design and implementation are to be executed in SS 2009. Expected results include a working software system accompanied by appropriate documentation.

Partner & Contact

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