

Semaspace

Project Home:

<http://code.google.com/p/semaspace/>

Effort: ~ **90 PT = 720 h**

- Advanced usability by providing new intuitive graph interaction ~ **35 PT**
 1. Isolation of necessary graph interaction parameters in correlation with possible input devices.
 2. Prototype design and implementation of interaction hardware
 3. GUI source code refactoring - Reconstruction/Removal of Swing GUI
- External interface for remote data access and graph interaction ~ **25 PT**
 1. Server component for retrieving and sending interaction parameters over network connection(s).
 2. Refactoring of data-structure/data-storage
- Advanced multimedia content nodes: video and/or image slides ~ **30 PT**
 1. Re-engineering of graph logic
 2. Performance and usability issues
 3. Fileserver of MM content

Topography

Project Home:

<http://code.google.com/p/molocblogger/>

Effort: ~ **60 PT = 480 h**

- Management of artefacts on a topographical level ~ **45 PT**
 1. Manual integration and/or manipulation of posted symbols with semantic and/or topographical relationships to other map symbols or Semaspace nodes.
 2. Manual Management of relationship between artefacts.
 3. Automatic link generation of syntactical equivalent artefacts.
 4. Automatic symbol selection based on posted artefact types and keywords.
 5. Credential management.

- Integration of GPS traces and individual location-based artefacts in real time (Mobile Recorder) ~ **15 PT**
 1. Content generation and management through a mobile location-aware client including text and image nodes.
 2. GPS trace recording and review with waypoint distance and travelling time info.
 3. Resolution of GPS coordinates into human-readable information like city districts, local time, elevation....
 4. Real-time or near real-time blogging of recorded information into the map.

Semantic-topographic Correlation

Effort: ~ **20 PT = 160 h**

- Definition and implementation of interface and data structures
 1. Definition of editable tag/keyword libraries
 2. Information retrieving / data-warehouse
 3. Shared/distributed database
 4. Communication interface

Summary Effort: ~ **170 PT = 1360 h**