

# CS420 - Spring 2006

## Team Assignment 4

### The Geospace Project (<http://geospace.vancouver.wsu.edu>) – Iteration 4

Due Date: April 13, 2:50 p.m.

Points: 200 points

#### Objectives:

1. Submit a Gant Chart showing your planned activities. (Hopefully you create this before you start with this iteration of the project.)
2. Both teams should meet and agree upon requirements presented in class as well as in this assignment. Both teams should work out an agreed upon design and a remote interface based upon the agreed upon requirements.
3. Develop and **thoroughly test** the deployed system  
<http://geospace.vancouver.wsu.edu>.
4. Use the Subversion repository on bitterroot to track all documents and code.

#### Iteration Description and Requirements:

Currently we have a system that allows users to:

1. log into the system, modify their profile, and logout.
2. interact with a yahoo map, save the map, and add and delete artifacts (notes, markers, and images) on the map.
3. publish maps (no domain restriction)
- 4.

This iteration will focus reliability and usability:

1. Test suites must be developed based upon the SRS document.
2. The following bugs need to be fixed:
  - a. Losing sessions upon login (high priority)
  - b. Publishing maps (need URL to map)
  - c. Searching for maps.
  - d. Viewing images (images uploaded with IE)
3. The user should not have to memorize a series of steps to complete a task. Uploading and publishing a photo should be a simple and intuitive task. (Drop down menus should be removed or revised).

#### Deliverables for Both Teams:

1. Gant chart and proposal. The proposal should outline team objectives for the next 2 -3 weeks. **The chart and proposal are due March 13.** (10 pts)
2. Each team member must review their peers using the peer review forms. Peer reviews are kept private and must be submitted via the class website.
3. Use an ant file to build and test.

4. Deploy to the class server machine: geospace.vancouver.wsu.edu. Each team should select 1 team member to be responsible for deployment.

**Deliverable Specific to the Client Team:** (190 pts)

1. Usability is now a priority. Team members should dedicate time to investigating usability of the system. This should include documented interviews with users of the system outside of the classroom (e.g. Dan Williams, faculty, and other students). **The team as a whole should act upon the user interviews to increase the usability of the system.** The user should not have to memorize a series of steps to complete a task. Uploading and publishing a photo should be a simple and intuitive task. (Drop down menus should be removed or revised).
2. A path article should be added to the UI. The path article allows users to draw a series of lines indicating a journey across the map.
3. Add to the existing test suite to cover new functionality.

**Deliverable Specific to the Server Team:** (190 pts)

1. Reliability is now a priority. Team members should construct a comprehensive test suite. The test suite should be used to reveal faults. The faults should be documented and fixed (if possible) by the next iteration. A justification must be made if bugs cannot be fixed.
2. Create one or more EJBs that provide functionality for storing and retrieving paths and thumbnails.
3. Support the Client Team by modifying or adding functionality to existing beans or creating new beans.
4. Storing imagery creates the need for scalable file management system. Design an interface based upon the perceived need for scalability of the system.

**Submission and Grading:**

1. All submitted documents will be graded on content as well as grammar. All documents must be in an html format, so they can be posted on a website if necessary.
2. Create a plain text README file that describes how to deploy and run the system. This should be placed in the docs directory and labeled (README\_TH4).
3. Submit all documents and code by checking them into subversion repository. (I will checkout a version when the assignment is due.)
4. Each team must submit extra documents containing the following artifacts:
  - a. Group meeting time(s) and duration. (post this on your website). You can use a password using htaccess.
  - b. A description of who worked on what (place this in your peer review forms).
5. Each student must submit (via the website) a peer-review for each of their teammates. Use one-peer review form, zip it, and submit it to the class website.