

CS420 - Spring 2006

Team Assignment 3

The Geospace Project (<http://geospace.vancouver.wsu.edu>) – Iteration 3

Due Date: March 20, 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 (when it's not crashed) 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 and markers) on the map.

This iteration will allow users to:

1. upload images (jpg, gif). Each image will be associated with a geospatial location on one or more maps. Image locations will be marked with icons on the map.
2. publish maps to the web. Users will be allowed to make 0 or more of their maps available to other online users. The published maps will reside in a directory associated with the user's username (e.g. <http://geospace.vancouver.wsu.edu/MyGeoSpace/joesmith>).
3. interact with the system, without the system crashing. This will require a test plan and test suite for both integration and unit testing.

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 7.** (10 pts)
2. Based on our discussions in class and assignment requirements, add to iteration 1's SRS. Provides enough detail to carry out this iteration (description, requirements, use-cases, etc). Both teams should co-develop Use-Cases to deal with upload images and publishing maps. (40 pts)

3. Use the requirements to add to the current UML design of the system. In this iteration add Sequence Diagrams demonstrating critical interactions in the systems. (40 pts)
4. A test plan (not necessary JUNIT tests) must be created and executed. (40 pts)
5. 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.
6. Use an ant file to build and test.
7. 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: (70 pts)

1. Add to the user interface for the project by implementing the Use-Cases. At least 1 team member 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.
2. Use the EJB's provided by the server team to save and retrieve information.

Deliverable Specific to the Server Team: (70 pts)

1. Create one or more EJBs that provide functionality for saving images. Images should not be stored in the database, but in a custom data structure that allows quick access to the images based on location.
2. Create one or more EJBs that provide functionality for publishing maps as described in the requirements.

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_TH1).
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.