TEAM2 INC.

Ushahidi GeoRole Project Outline

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1 Problem

1.1 Metaphor

Using MSPaint and Google Maps as user restriction tools.

1.2 Problem Explained

Ushahidi currently has no way to restrict user roles based on geographic location. There are a few issues with this, namely lack of local expertise and credibility. Administrators would be well served with a feature that would allow them to select a geographic region under which their reports will be allowed to operate.

2 Requirements

2.1 Mock Up

The ideal solution is to use a graphical tool to select the region. Ushahidi
currently supports some form of polygon selection, however our team
will need to investigate the possibility of incorporating this pre-existing
code into this addition. This feature would resemble the following figure.

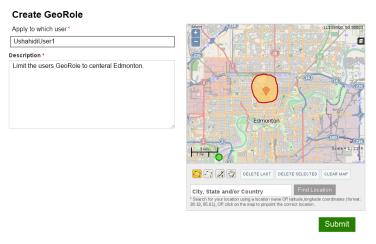


Figure 1: Map based region selection.

• The more simplistic approach is to define a region based on text input. This may prove to be the more ideal solution if the pre-existing map based polygon hooks prove difficult to implement in our addition.



Figure 2: Text based region selection

2.2 User Stories

ID	Story Name	Notes	How to Demo	Importance	Estimate
1	User Hierarchy		Show process of how higher levels can set lower levels in user hierarchy	60	2
2		users should be able to be restricted to a region	Show region restriction creates an object or sets a database field	90	5
3	User View	Restrict users view of data to within their GeoRole on the map	Display map from user account	30	3
4			Show the website with functional HTML, not necessarily a working back end or JS	10	1
	Verify/Validate Report		Submit report outside or GeoRole, show handling of report (deletion, denial, etc)	40	2
6	Verify/Validate GeoRole		Show abstract implementation of how this is done from the administrator side of the API	50	3
7			View GeoRole of a user, edit role, save, show modified role on map	70	2
8		Process of assignment of GeoRole for member and admin type users	Create new user, perform GeoRole assignment process through the GUI	80	3

Figure 3: Initial project backlog.

2.3 Must Haves

• User hierarchy of geographic restriction.

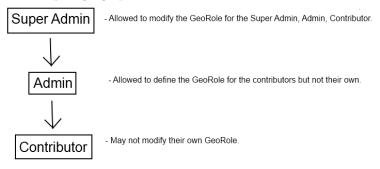


Figure 4: Permission flow.

• Some representation to the user of area of restriction or control.

3 Time Line

GeoRole Sprint Planning Timeline

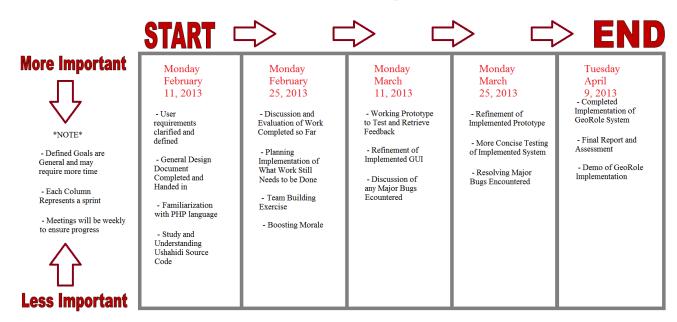


Figure 5: Projected sprint outline.

4 Approach

As Ushahidi's web framework runs on Kohana, this will naturally be an extension of the Model-View-Controller. At a more specific level, we will be using a modified scrum development scheme. As we are a small team we will not have a traditional Product Owner or Scrum Master. We as a team will decide the weighting and importance of user stories and incorporate them into the sprints themselves.

• Our team will produce weekly builds on the master branch. These will be considered stable working builds should the project need to be reverted back to a prior state. Our development branch will be considered our integration environment, with our final production build coming from our final master push.

• Each weekly build will replace the current master branch. The current master branch will be moved and renamed into a version delimited branch. Each sprint will mark a major version number, with each build within the sprint forming the minor version number.

• Our team will use the industry standard bug tracking software, JIRA.

This should allow good cross platform usage.

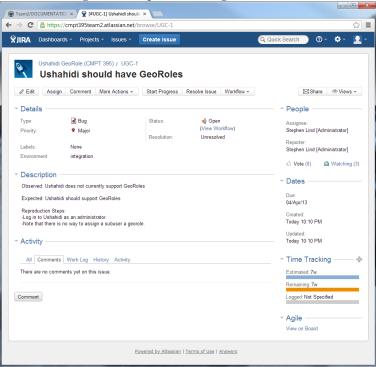


Figure 6: JIRA Bug overview.

5 Obstacles

5.1 Unknowns

Ushahidi's code base for GUI geographic region selection is obscure and difficult to locate. The actual object behind this functionality is currently our biggest unknown. Until there is further communication with Ushahidi developers we are at a loss for GUI development. This could turn a risk, or the option as shown in the alternative mock up is to us a text based selection.

5.2 Risks

- Time frame. We have 5 sprints comprising 9 weeks. Our team is involved with other tasks so we expect our focus factor to be low.
- Business risk. As we lack a project owner, the task outline is vague and our deliverable may be not as expected.
- Technological risk, our team is new to PHP and Kohana. The upside to this is as our team is brought up to speed, our focus factor should increase.
- Feature creep. As there is no project owner, our team's ambition could add to the project backlog unnecessarily.

6 Summary

Our goal is to produce a system that will implement GeoRoles that restrict and define a user's purpose within Ushahidi based on geography. This allows verifying, validating and visualizing disjointed information that is used by separate geographic regions and organizations. This project's scope is ambitious for the given timebox, but very achievable. Our team will implement this system in a concise, efficient and maintainable manner that will benefit users of Ushahidi for some time to come.