

TEAM2 INC.

Ushahidi GeoRole Project Outline

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February 11, 2013

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

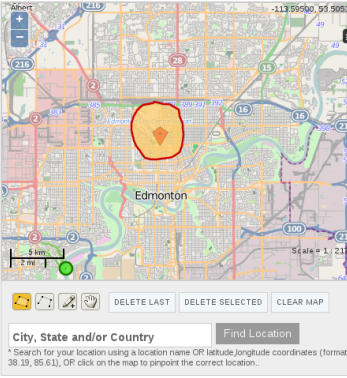
2.1 Mock Up

- 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.

Create GeoRole

Apply to which user *

Description *



Submit

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.

Create GeoRole

Apply to which user *

Locations in the GeoRole *

Description *

Figure 2: Text based region selection

2.2 User Stories

ID	Story Name	Notes	How to Demo	Importance	Estimate
1	User Hierarchy	Need to implement user roles, or expand current	Show higher levels can set lower levels		
2	Region Selection	Users should be able to be restricted to a region	Show region restriction creates an object or sets a database field		
3	TECH: PHP	Familiarize team with PHP	Team can navigate basic PHP functions		
4	Set up Tools	Bug Tracking. Version control should be implemented	Team can work with shared source and enter bugs		
5	GUI Design	The selection method should ideally have a graphical component	Demo that selecting a polygon creates an object		
6	Web Layout	Need to create a UI that is usable by the average user	Show the website with functional HTML, not necessarily a working back end or JS		

Figure 3: Initial project backlog.

2.3 Must Haves

- User hierarchy of geographic restriction.

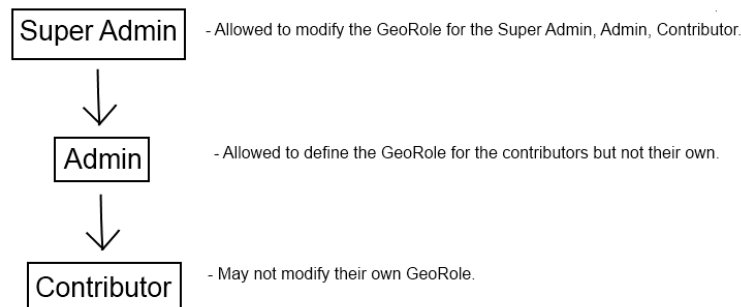


Figure 4: Permission flow.

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

3 Time Line

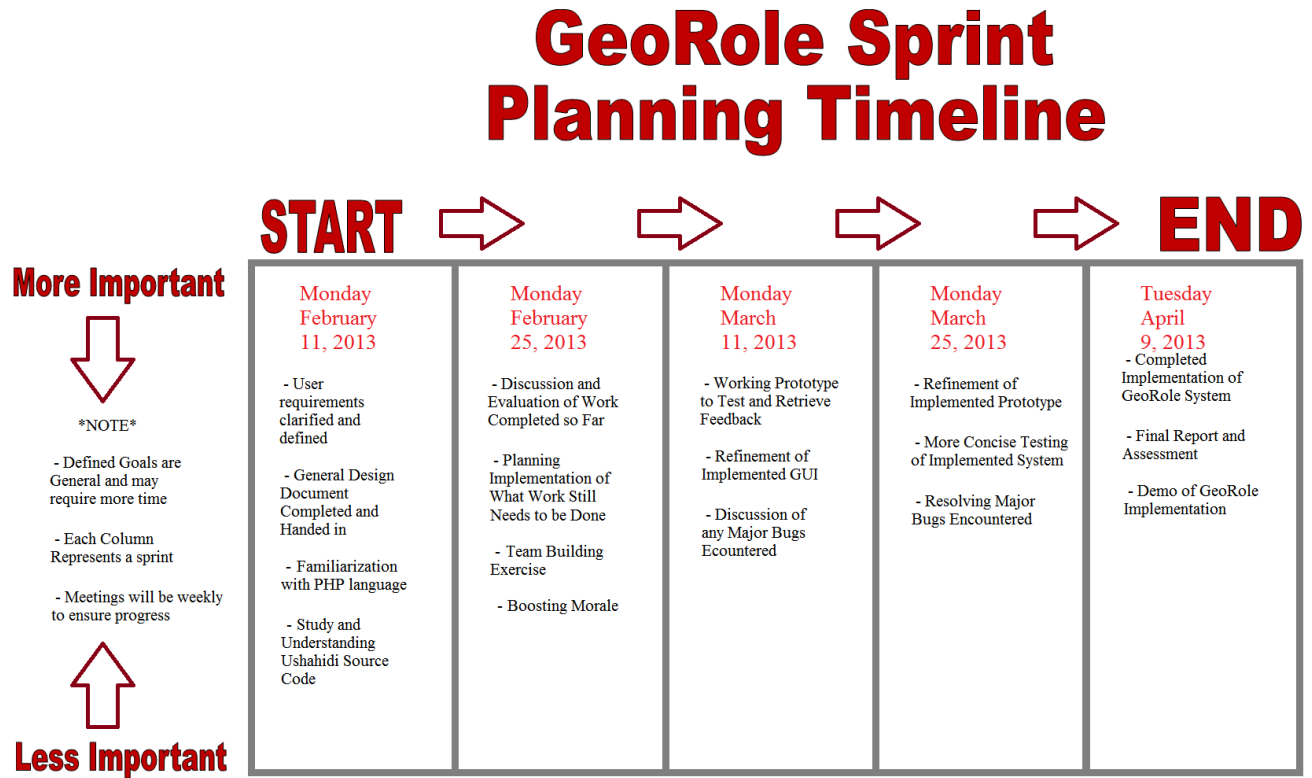


Figure 5: Projected sprint outline.

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.

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.