

TEAM2 INC.

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# Ushahidi GeoRole Project Final Report

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# 1 Problem and Resolution

## 1.1 Introduction

Our implementation of Ushahidi implements the GeoRole functionality outlined in Heather's blog post based on a string matching technique. We envisioned GeoRoles as a method to restrict user reports and administrator verification in order to add credibility and specialization to Ushahidi reports. This system required modification to a variety of controllers, views and models as well as localization modification. The program is ready for a version 1.0 release as all required functionality is present and stable, however there is still room to improve the user experience in future releases.

## 2 Accomplishments

### 2.1 Main Map

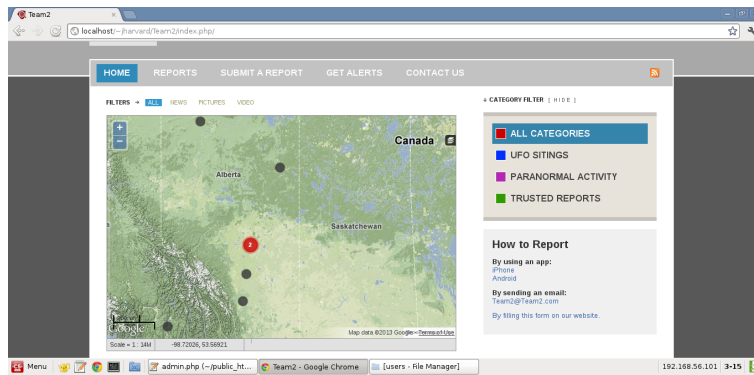


Figure 1: Initial User View.

The main map is filtered now based on GeoRole. If an incident on the map is within your GeoRole, the incident will show as red. If it is not, the incident will show as black. We manipulated jquery methods to implement this color change.

## 2.2 Reports

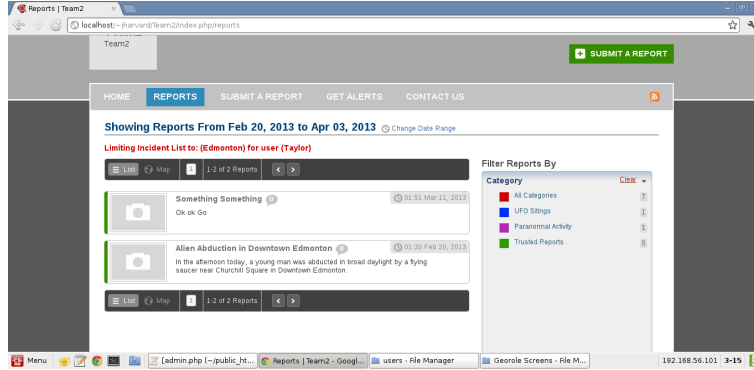


Figure 2: Filtered reports list.

The report list is implicitly filtered by the user's GeoRole. If the user's GeoRole is not specified (ie. NULL) the Reports page will show all reports. This ensures that our version of Ushahidi is backwards compatible with the current official Ushahidi release.

## • 2.3 Submission of Reports

Admins implicitly cannot edit users outside of their GeoRole as they are not displayed in the view to the admin. The SuperAdmin is able to see all users and edit them at a global level.

## 2.4 mySQL Database

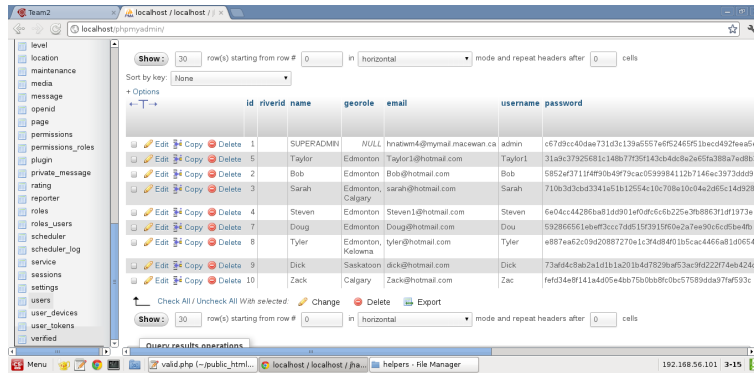


Figure 3: Database modifications.

The SQL database was modified to contain a 100 character long field that is used to set GeoRole based on string comparison.

## 3 Tools

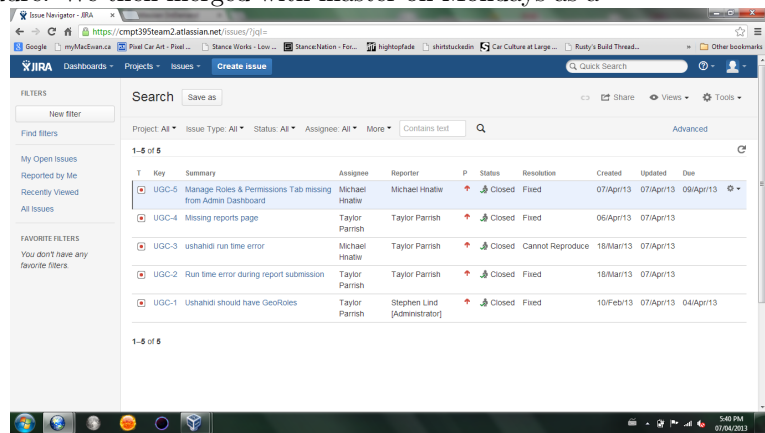
### 3.1 JIRA Bug Tracking

We used Jira to track all of our bugs. Most of our bugs were short term and not filed, but anything that took more than a half hour or so was filed.

### 3.2 GitHub

GitHub was used as our version control. GitHub initially had a steep learning curve, but maintained a clean codebase. We eventually settled on branching from develop locally, then rebasing develop and merging the local branch as our general development procedure. We then merged with master on Mondays as a

psuedo weekly build.



The screenshot shows the Jira web interface with a list of bugs. The table has columns for ID, Key, Summary, Assignee, Reporter, Priority, Status, Resolution, Created, Updated, and Due. There are 5 issues listed, all with a status of 'Closed'.

ID	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
UGC-5	UGC-5	Manage Roles & Permissions Tab missing from Admin Dashboard	Michael Hnativ	Michael Hnativ	+	Closed	Fixed	07/Apr/13	07/Apr/13	09/Apr/13
UGC-4	UGC-4	Missing reports page	Taylor Parrish	Taylor Parrish	+	Closed	Fixed	06/Apr/13	07/Apr/13	
UGC-3	UGC-3	ushahidi run time error	Michael Hnativ	Taylor Parrish	+	Closed	Cannot Reproduce	15/Mar/13	07/Apr/13	
UGC-2	UGC-2	Run time error during report submission	Taylor Parrish	Taylor Parrish	+	Closed	Fixed	15/Mar/13	07/Apr/13	
UGC-1	UGC-1	Ushahidi should have GeoRoles	Taylor Parrish	Stephen Lind [Administrator]	+	Closed	Fixed	10/Feb/13	07/Apr/13	04/Apr/13

Figure 4: Jira Bug List.

## 4 Development History