OSM Hall Monitor: Tracking objects, tags, and users

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What is a Hall Monitor?





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Filling a Need

Introduction

CHALLENGE

- Users cannot subscribe to object updates
- Tracking objects or users requires manual checking

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OPPORTUNITY

 Create a lightweight automated tool to scan changesets



Basics of Package

osm_hall_monitor: python package

- Maintains databases of objects, users, and key/values to monitor.
- Scans diff files for any events that correspond to tracked things (minute to day resolution), and
- Provide a log of these events with optional notification.

osmhm_site: python package

- Provides front-end interface for database management and log viewing, and
- ▶ Allows authentication via OSM for multi-user setups.





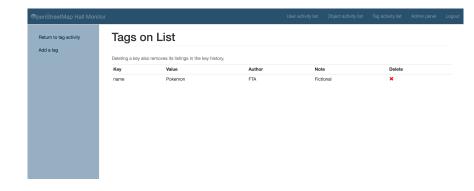
To get OSM Hall Monitor running after installation:

- ► Create database and user credentials, then supply them through environmental variables or directly in Python.
- Add something to track.
- Use the overarching run program that will download diff files in realtime and search for your tracked item.

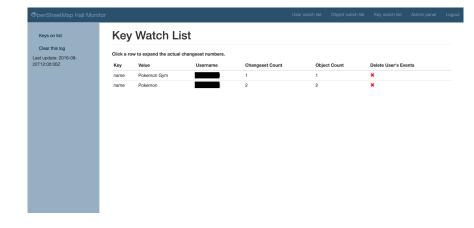
Application Tracking a Tag: Pokestops



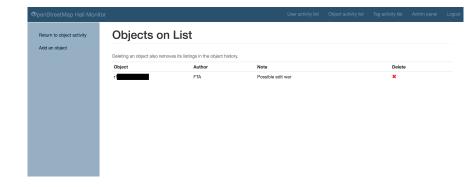
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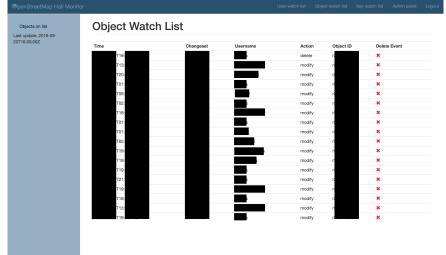
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Application Tracking an Object: Edit War



Application Tracking an Object: Edit War



Other Sample Applications (From a DWG Perspective)

- Tracking users who have been blocked
- Watching particular objects
- Looking for incompatible sources



Wrapping Up...

- ► Big Brother for OpenStreetMap
- No a priori OSM database required
- Still in its infancy
- Collaboration and ideas welcomed!



Thanks!

http://github.com/ethan-nelson/osm_hall_monitor

http://github.com/ethan-nelson/osmhm_site

Demo (until it crashes):

http://osm-hall-monitor.herokuapp.com

