

TIES456 demo 3

Alexi Pekkala (alvianpe@student.jyu.fi)

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Analytics REST API

- 4 resources:
 - Events
 - Categories
 - Users
 - Alarms
- Each event has a category
- Each alarm has a category and a owner (user)
- idea being that when event with category X triggers, all users with alarms set for category X are alarmed - not implemented for this demo

Use cases

- User defines an event category
 - **POST** /categories
- Event source triggers an event
 - **POST** /events
- User lists events of given category
 - **GET** /categories/:id/events
- User lists events with given meta attributes
 - **GET** /events?where={"meta.y": 12}
- User creates an alarm
 - **POST** /alarms
- User lists owned alarms, oldest first
 - **GET** /users/:id/alarms?sort=_created

Implementation

- Python, Flask, Eve, MongoDB
- Deployed via Heroku
 - <https://analytics-rest.herokuapp.com/api-docs>
- Auto-generated Swagger docs
 - <http://petstore.swagger.io/?url=https://analytics-rest.herokuapp.com/api-docs>
- Bottlenecks:
 - ambiguous paths:
 - e.g. create new alarm either via POST /users/:id/alarms, POST /alarms or both?
 - in the end decided to limit nesting as much as possible; nested routes are only used for GET requests