VRIJE UNIVERSITEIT
FACULTY OF SCIENCES

Amsterdam Vibe

Intelligent Web Applications course final project

Project report

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1. Introduction

This is comprehensive report of Intelligent Web Applications course final group project.

1.1. Requirements

There was the following requirements for the project:

- Use an RDF store.
- Use semantic Web reasoning in your RDF store to generate new information.
- Integrate at least three data sources.
- Present the integrated information in cool, interesting and innovative ways.
- Interact with at least one remote SPARQL endpoint (In addition to your local RDF store).
- Interact with at least one non RDF Web service.
- Write a report about it.

1.2. Code

All code can be found in the following public Github repository:

- https://github.com/TooHighToPlay/AmsterdamVibe
- or www.amsterdamvibe.nl

1.3. Link to working application

Working example of the application can be found on the following link:

- amsterdamvibe.herokuapp.com

2. Report

2.1. Questions to cover

- the goal of the application (what does it aim to do, and why is this useful?).
- the datasets and services used by the application
- the functionality of the application (what things does the application do, what is a typical workflow)
- the inferencing used by the application (it helps if you give a concrete example).
- any other considerations you had during the design and implementation (what worked, what didn't work, what motivated your decision to go for a particular solution)
- any future plans you may have (what would you like to add if you had the time?)

2.2. Idea

Amsterdam is famous not only for it's architecture, history or beautiful sights, but also for it's vibrant nightlife. It has more than 4 million tourists coming over during the year, it also has a lot of youth people from all over the world living here. Amsterdam can offer a lot of electronic music events for such diverse mix of people. Because people in Amsterdam is so proactive, they have a lot of activities and tend to plan parties in advance. Students study hard, work hard and tend to party hard. But when there are so many events, it's easy to miss interesting ones. Youth tend to search events via Facebook, going through club pages, looking at invitations, etc.. But maybe there are an easier, more convenient way of planning parties?

2.3. Goal

Amsterdam Vibe project was proposed to solve this issue, and to develop an application to help people know the latest and comprehensive information about events going in the town and to help them decide where to go. Here are the following main goals:

- Compare with other existing online applications, providing information about music events, and evaluate them to provide best user experience with Amsterdam Vibe application.
- Provide comprehensive information about events and music artists.
- Suggest places by providing personalization in Amsterdam Vibe application.
- Make it simple and easy to use (that means less user interaction events, for example mouse clicks, to reach relevant information comparing to analyzed alternatives)

2.4. Comparison

As with writing of the report, there were 4 main online sources found, which provide relevant information. The typical workflow of navigating and searching information will be provided.

First is of course Facebook. It's known as the world's most famous and popular social network. Typical workflow of searching events is typing your favorite night club name, opening it's Facebook page and looking at timeline or Events tab, selecting desired event and looking at information provided there. It usually lacks samples of music, user must remember club names and it requires a lot of typing and clicking from the user perspective. It's easier when your friends invite you to an event, but then you cannot compare it with other events happening that day.

http://www.partyearth.com/amsterdam/ - It promotes not only club events, but also bars and concerts. It does a great job by providing similar venues and user reviews, but it lacks information about music artists.

http://thedjlist.com/ - It has a lot information about electronic music overall. You can enter the city and the site provides events in the typed location. It lacks information about artists. It provides information about friends going to event via Facebook, map of the event and integration with Facebook to manage invitations to events.

http://partyflock.nl/ - website, started at 2001, it's a Dutch viral community for people interested in electronic music. It has a lot of information about music artists

and events, but site user interface is not so friendly. It's a bit hard to navigate the site and it's overloaded with information.

2.5. Functionality

Amsterdam Vibe application tries to incorporate best features found in these sites and add new ones to provide the best experience for the user.

Design of Amsterdam Vibe main page reminds Pinterest board by splitting events and arranging them depending on screen resolution. The first page of the application, provides the login button. User can log in into the system to get some interesting benefits mentioned in the next paragraph.

Main application screen provides two types of events:

- Suggested events - when user logs into Facebook via Amsterdam Vibe application, it suggests events to the user by analyzing their likes and events, which user attended in the past. It tries to find specific genres of music, which would probably user would like.
- Top Events - top events of best clubs in Amsterdam sorted out by date, so the nearest event comes first in the agenda

Main screen provides event picture, concrete club, which publish this event, time and genre about it.

When user clicks on specific event, comprehensive information about event shows on the screen. It provides user with description of the event, price, people attending (From Facebook), music genres of the event, music artist list with embedded music samples, start time of the event, cover picture, place, and location visualised on the map.

2.6. Datasets and services

The following datasets and RESTful services were used.

- Facebook API
- SoundCloud API

- Open Street Map API
- DBPedia Spotlight service
- Sesame data store.

2.7. Inferencing

2.8. Challenges

2.9. Future work