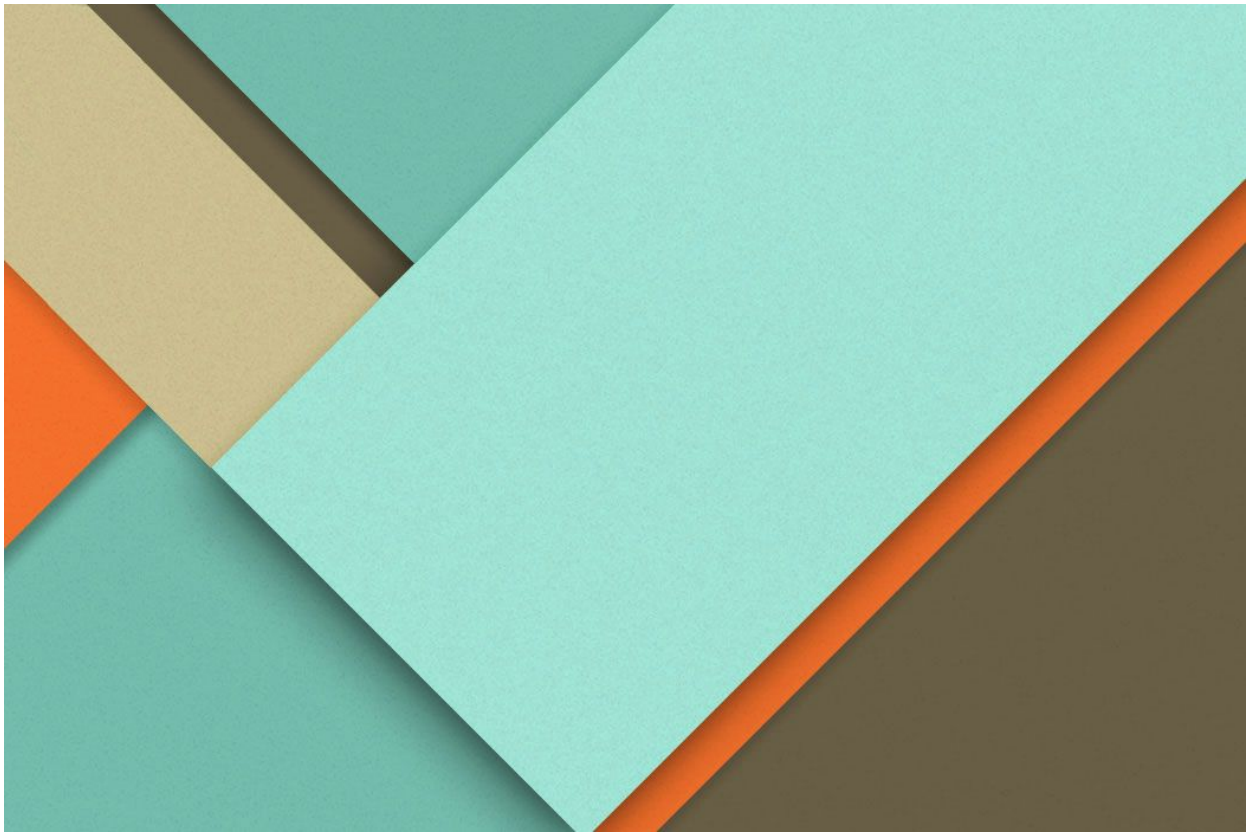

Semantic Web App -

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Overview

This is a Semantic agent that queries interesting recipes based on ingredients inputted by the user.

Goals

1. **Integrate data from heterogenous sources.**

   .json(training data), .csv, .xml and **design ontology.** //found data sets from kaggle.

   https://www.kaggle.com/c/whats-cooking/data

   For .xml data we can use json to xml converter and use data from test data set.

   json to xml converter: http://www.freeformatter.com/json-to-xml-converter.html

   Note: Once we analyze the data, designing the ontology should not take much time. We can use protege (OWL) to design the ontology and have the rdf-rdfs graph soon.

2. **Store the data in a single location.**

   In a document oriented db like mongodb, with mongraph npm module.

   (Or) do we have any directly available triple stores?? I am really not sure about this.

3. **Query data and show results in interesting formats;**

For this we can use mozenda, it is an awesome tool to extract data from web pages. We can directly use this tool instead of building from scratch.

Link to mozenda: http://www.mozenda.com/

With this we will be able to query and showcase results.

// I have downloaded this tool, it's is a simple and efficient tool for scraping data. Tried it!

App Building

Web App (since we have scrappers readily available and extracting becomes simple).

a. We can have a basic web-app that has the data sets stored.

Just an idea!

nodejs app with mongodb using the mongraph npm module.

http://www.infoq.com/news/2011/12/mongograph-qa

We can run our nodejs app on the localhost and have mozenda query the required data.

Milestones

I. Semantic Data Model

(Semantic data model + owl file) ----------> 12 Nov

II. Linked Data

(.rdf instance files) ----------> 24 Nov

lll Data Driven Sem Web App ----------> 4 Dec

(Source code + Readme + video + report)