Service Packaging

Goals

- Dataset on touristic offers made by hotels in triple format
- Make it queryable for other services or applications
    - filter by location
    - list multiple results
    - detail view on specific offer/hotel
- Integrate data from other sources into our results
    - use **dbpedia** for an abstract on the location
    - list nearby tourist attractions

Technical Solution

Database

- Apache Jena Fuseki
- loads different RDF sources
    - touristic data
    - mock data
    - dbpedia fetched data
- adds reasoning
    - schema:org RDFS subclasses
    - manual rules
- sparql scripts on startup for more complex stuff

Service

- Jersey
  - RESTlike endpoints
    - offers
    - businesses
    - attractions
    - events
  - parameters used to influence query
- Jena
  - connection to fuseki
  - JSON-LD generation

Weather Integration

- fetch JSON from openweathermap.org
- put into ontology
  - http://purl.org/ns/meteo
- integrate in business endpoint

Future Work

- integration of city descriptions from dbpedia
    - difficulties on matching the resources
    - ambiguous names
- setting timeouts for fuseki
    - FE guys found a way to crash the server
    - ?limit=10000 leeds to timeout in webserver
    - fuseki will work forever

Further Information

Git

- http://git.uibk.ac.at/csas7564/sws16
- contains dataset thus request needed
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Thank you!