Advanced Internet Computing

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Topic 2: Crowdsourcing

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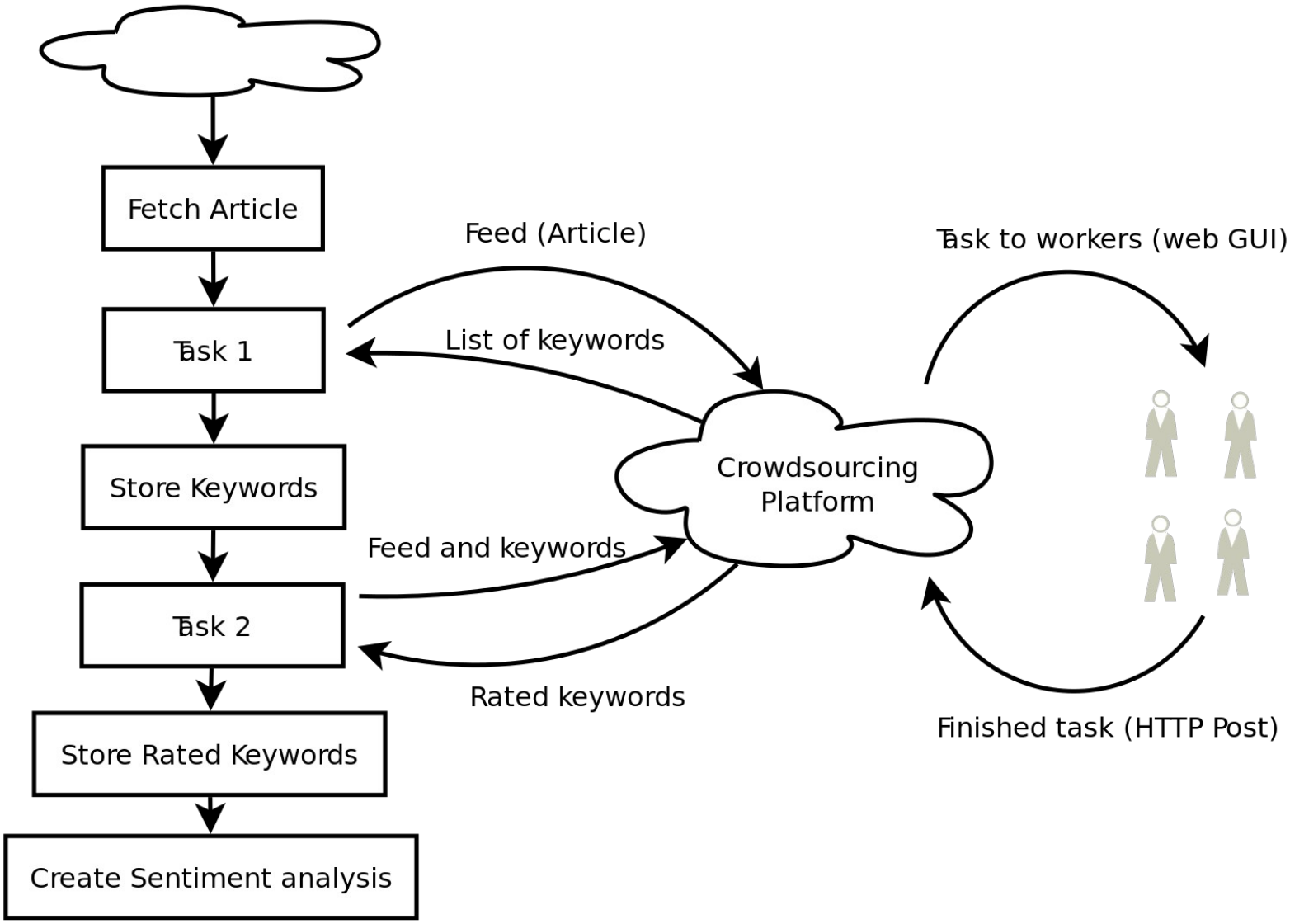
Topic description

- Plan and implement Sentiment analysis for products and companies mentioned in article-feeds
  - Gather feed-contents
    - (Pre-scan articles for keywords)
  - Crowd: Identify keywords for products and/or companies
  - Crowd: Rate keywords in conjunction with article
  - REST interface for sentiment querying
- Implement Crowd sourcing simulator
  - (MobileWorks was not reliable...)

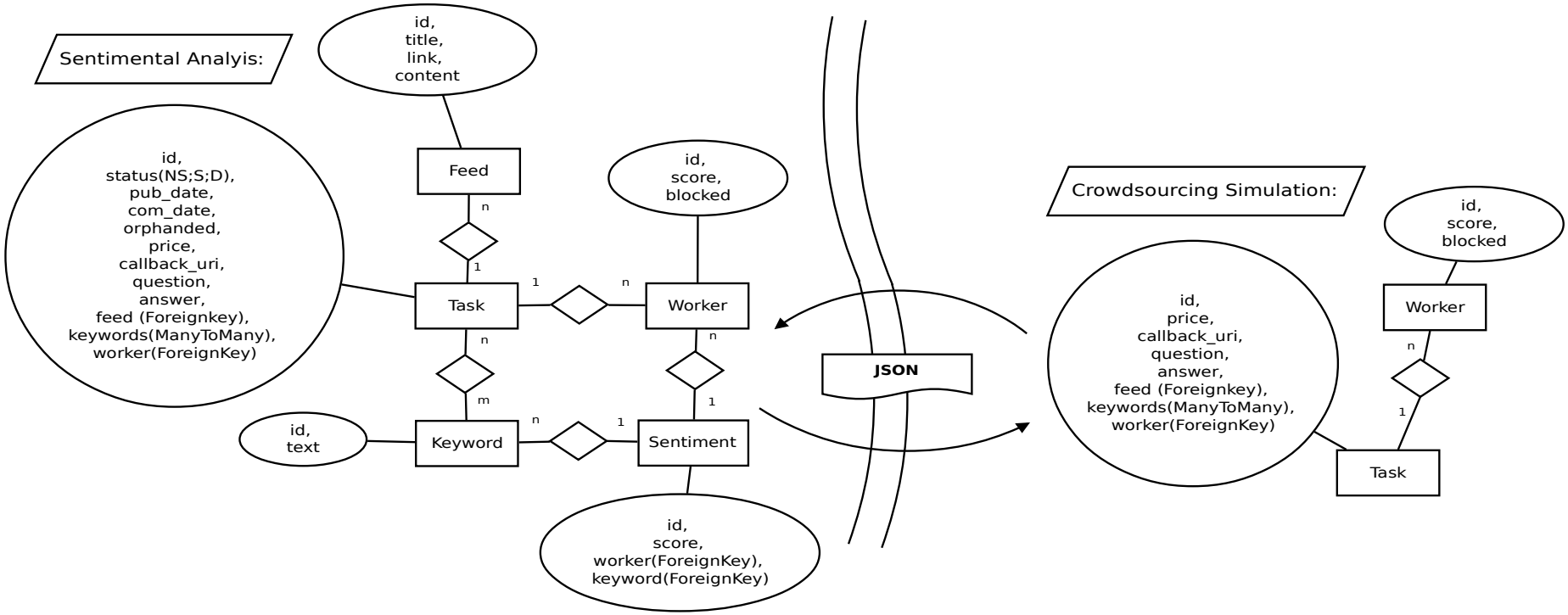
Technology

- Python
- Django
  - REST / JSON
- SQLLite
- Bootstrap (for GUI, mockups)

Task flow


Fetch Article
Task 1
Store Keywords
Task 2
Store Rated Keywords
Create Sentiment analysis
Feed (Article)
List of keywords
Feed and keywords
Rated keywords
Crowdsourcing Platform
Task to workers (web GUI)
Finished task (HTTP Post)

DB Model


Sentimental Analyis:
id,
title,
link,
content
Feed
id,
status(NS;S;D),
pub_date,
com_date,
orphanded,
price,
callback_uri,
question,
answer,
feed (Foreignkey),
keywords(ManyToMany),
worker(ForeignKey)
Task
id,
score,
blocked
Worker
id,
text
Keyword
Sentiment
id,
score,
worker(ForeignKey),
keyword(ForeignKey)
JSON
Crowdsourcing Simulation:
id,
price,
callback_uri,
question,
answer,
feed (Foreignkey),
keywords(ManyToMany),
worker(ForeignKey)
Task
id,
score,
blocked
Worker

Thank you!

Now lets see it in action!