

Advanced Internet Computing

WS 2013/14

Topic 2: Crowdsourcing

Bernhard Gößwein

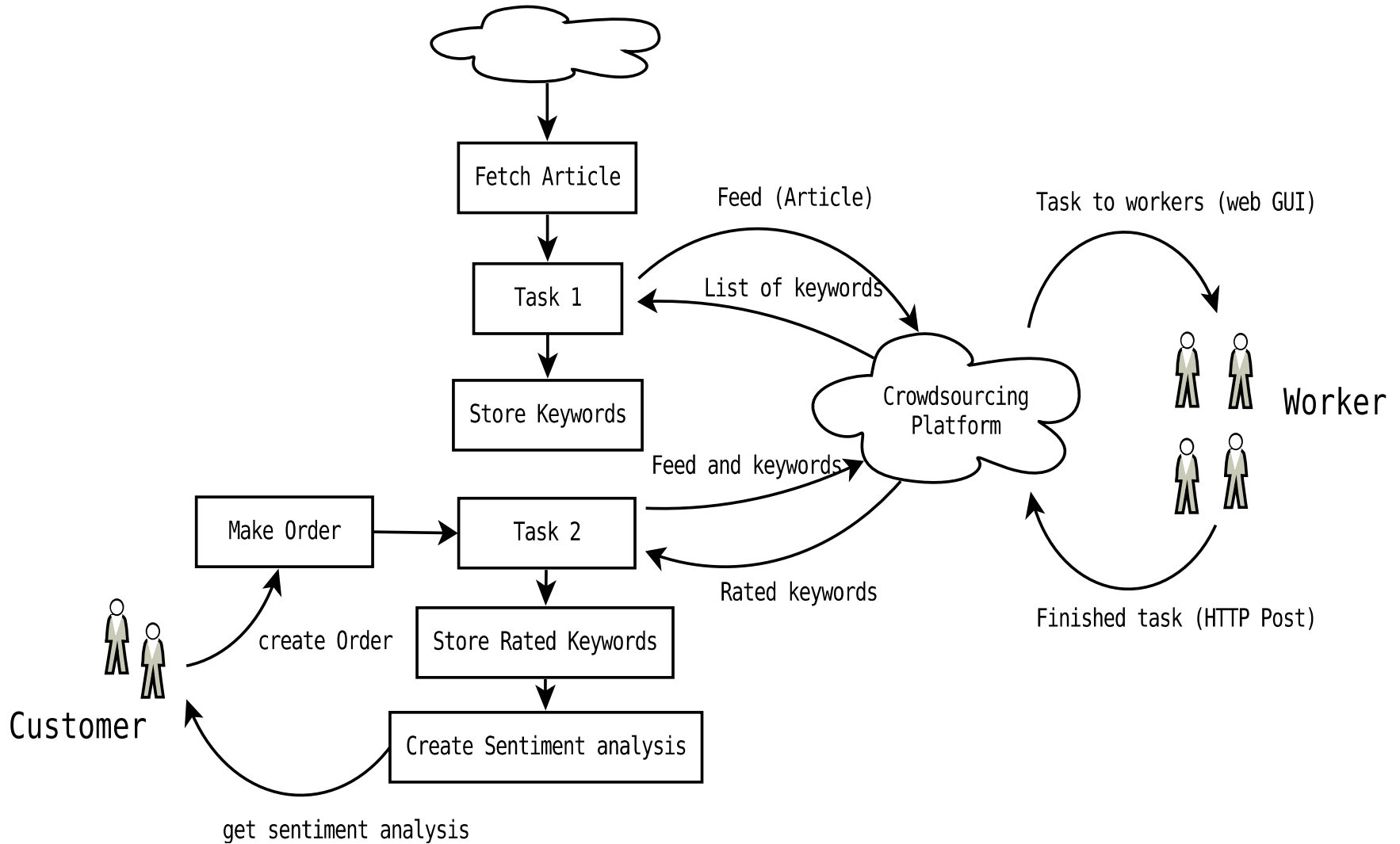
David Riepl

Robert Kapeller

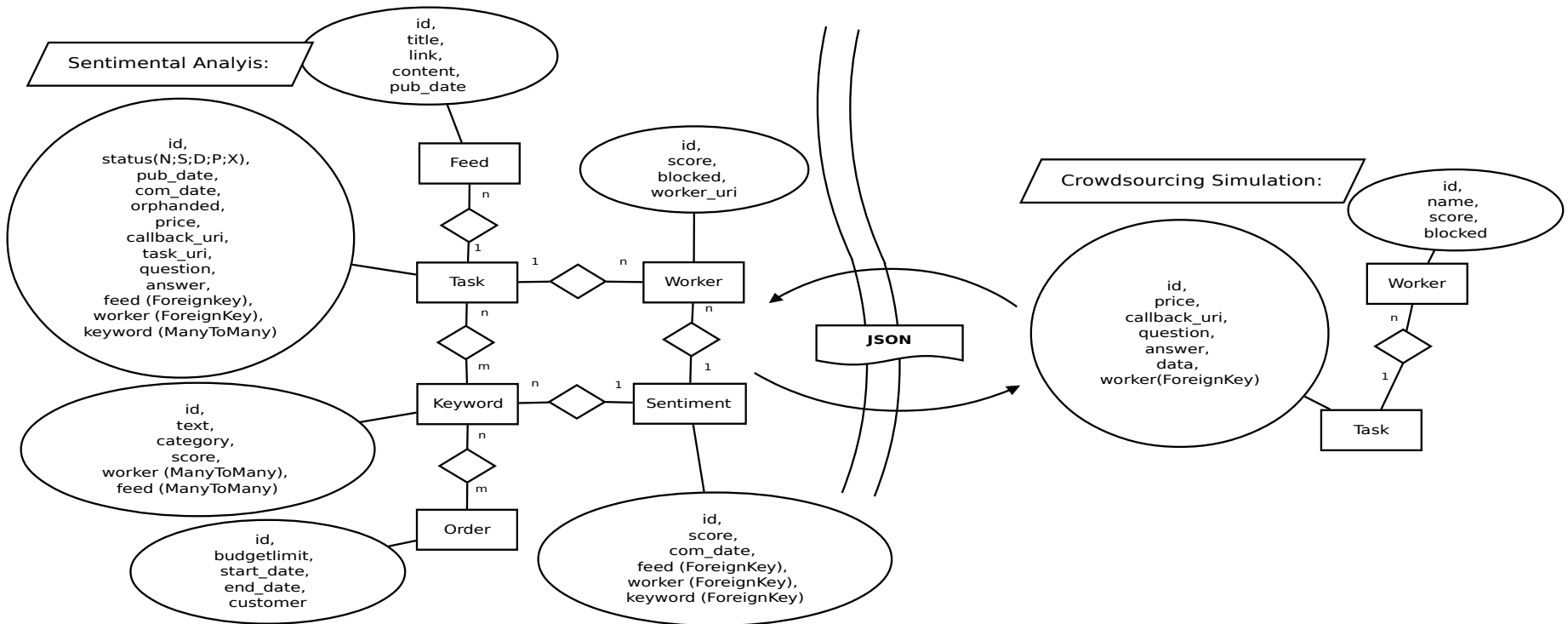
- Plan and implement Sentiment analysis for products and companies mentioned in article-feeds
 - ◆ Gather feed-contents
 - ◆ Crowd: Identify keywords for products and/or companies
 - ◆ Crowd: Rate keywords in conjunction with article
 - ◆ REST interface for sentiment querying
- Implement Crowd sourcing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

- Python
- Django
 - ◆ REST / JSON / Tastypie / ...
- Feedparser
- SQLite
- Bootstrap (for GUI, mockups)

- 2 Tasks
 - ◆ Identify keywords
 - Feed-fetch automated via cron jobs (yahoo finance)
 - ◆ Rate keywords
 - Customer driven (Order)
 - Task-count depend on customer budget and article length
- Sentiment analysis (graphically)
 - ◆ Average sentiment per keyword
 - ◆ Detailed view
 - ◆ Graphical analysis
- GC
 - ◆ Delete old unfinished tasks



- Task 1 – keyword detection
 - ◆ Worker rated with negatively if:
 - keyword not in original text (currently no word - normalization). Keyword is not accepted.
 - Majority voting on keyword/category combination
- Task 2- sentiment voting
 - ◆ Spam-prevention: if distance to median ≥ 3 worker rated negatively
- Redundancy
 - ◆ Task 1: Each feed posted 3 times
 - ◆ Task 2: Depends on budget



Thank you

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Now lets see it in action!