

REVIEW SUMMARY SYSTEM

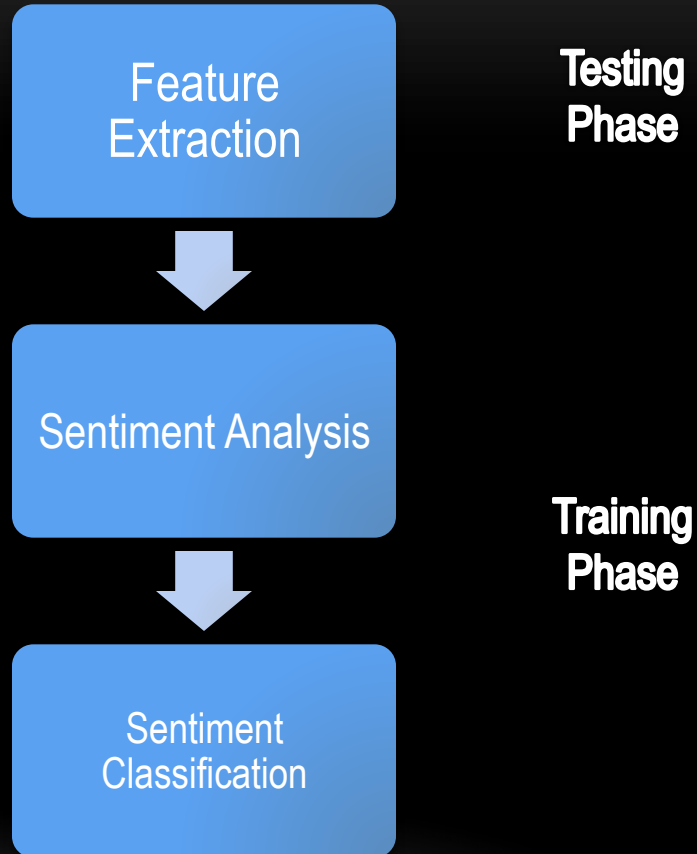
Team – 22

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(201107502) - (201107625) - (201107616) - (201107617)

OVERVIEW

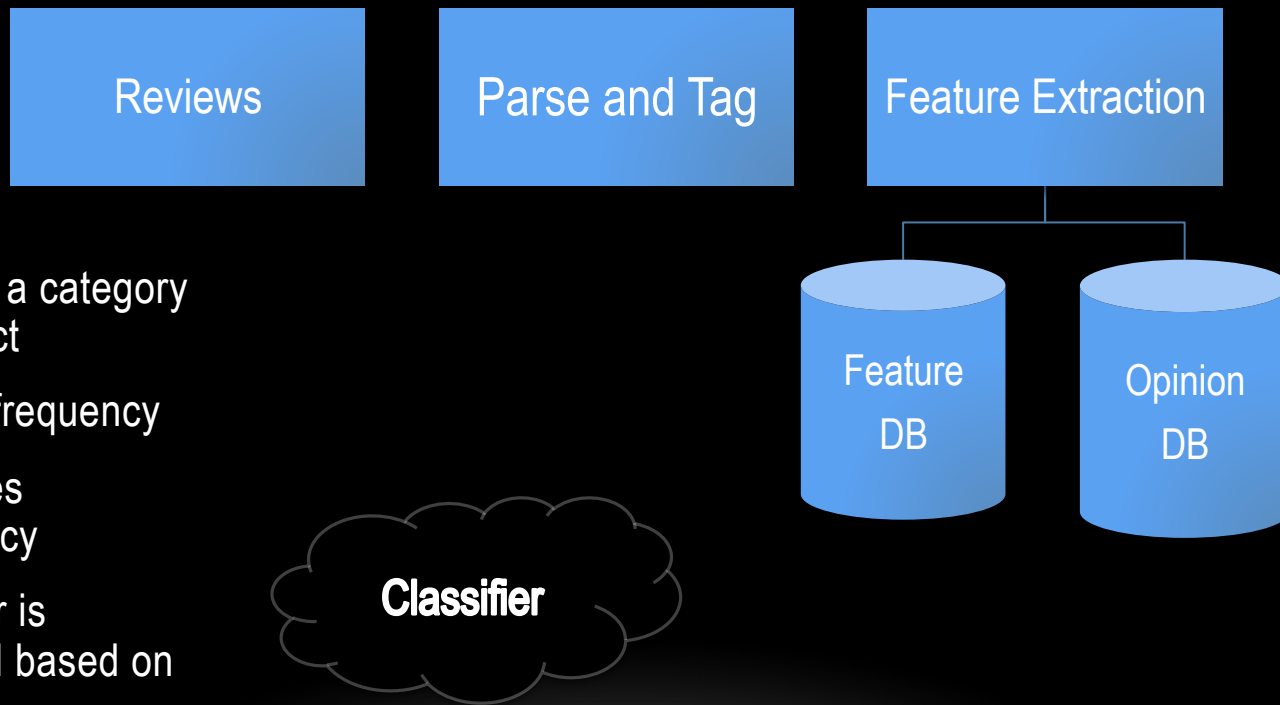
- System to summarize reviews from various sources
 - Users can view and compare products based on features
 - Results exposed as RESTful web-service
 - Ability to cater to different products
-

OVERALL WORK FLOW



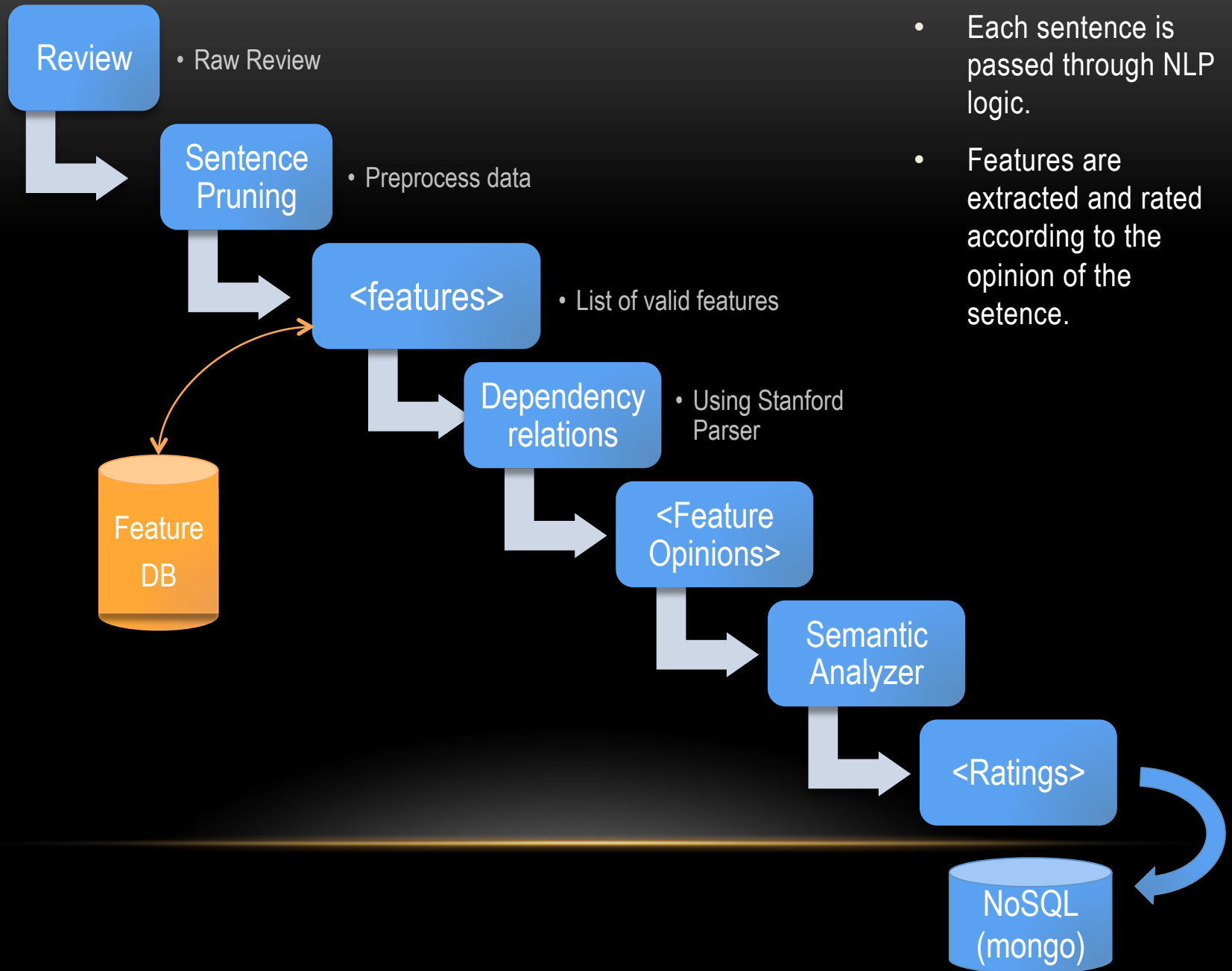
DETAILED FLOW CHART

– Training Phase –

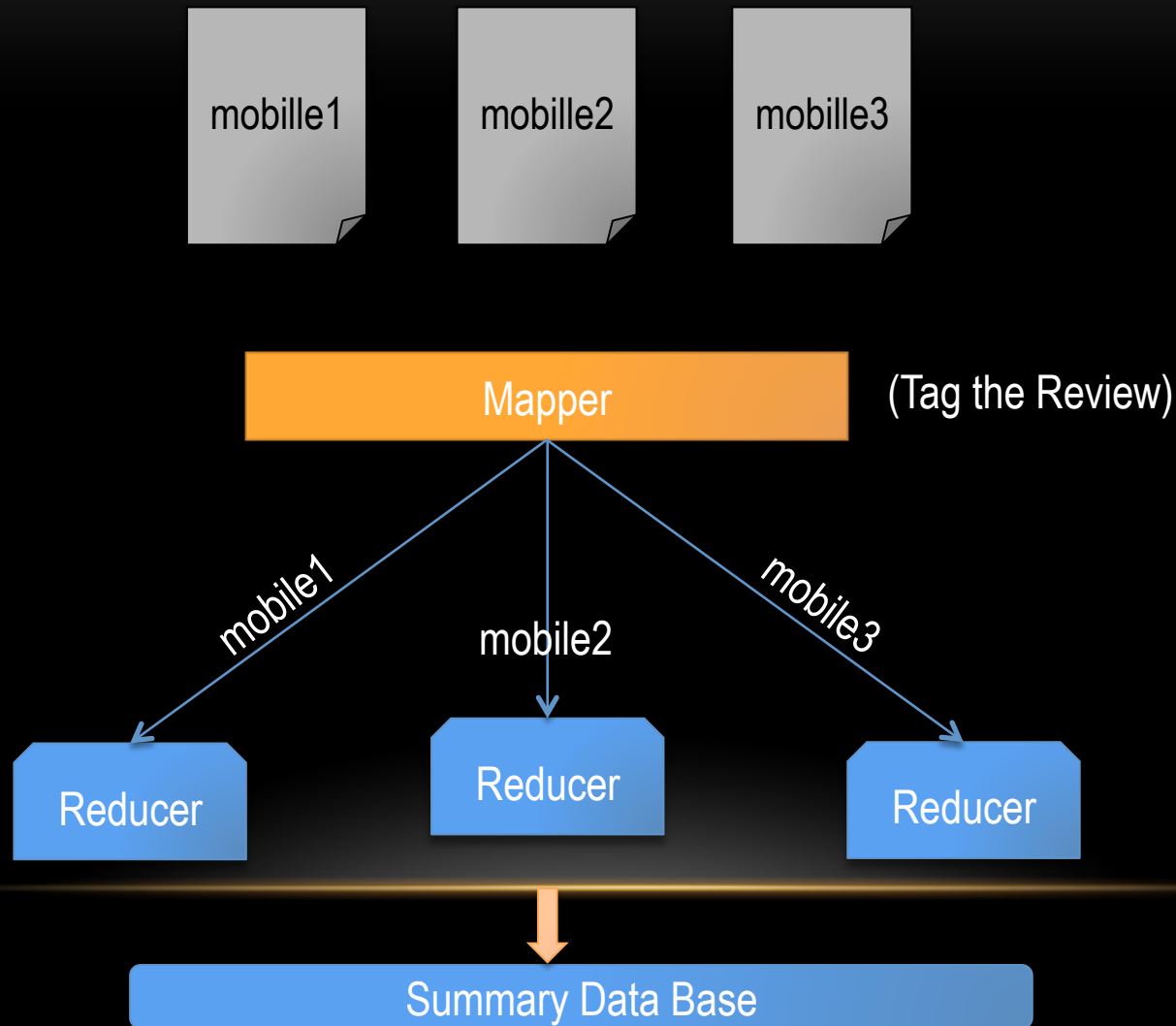


- Once for a category of product
- Nouns #frequency
- Adjectives #frequency
- Classifier is designed based on this data.

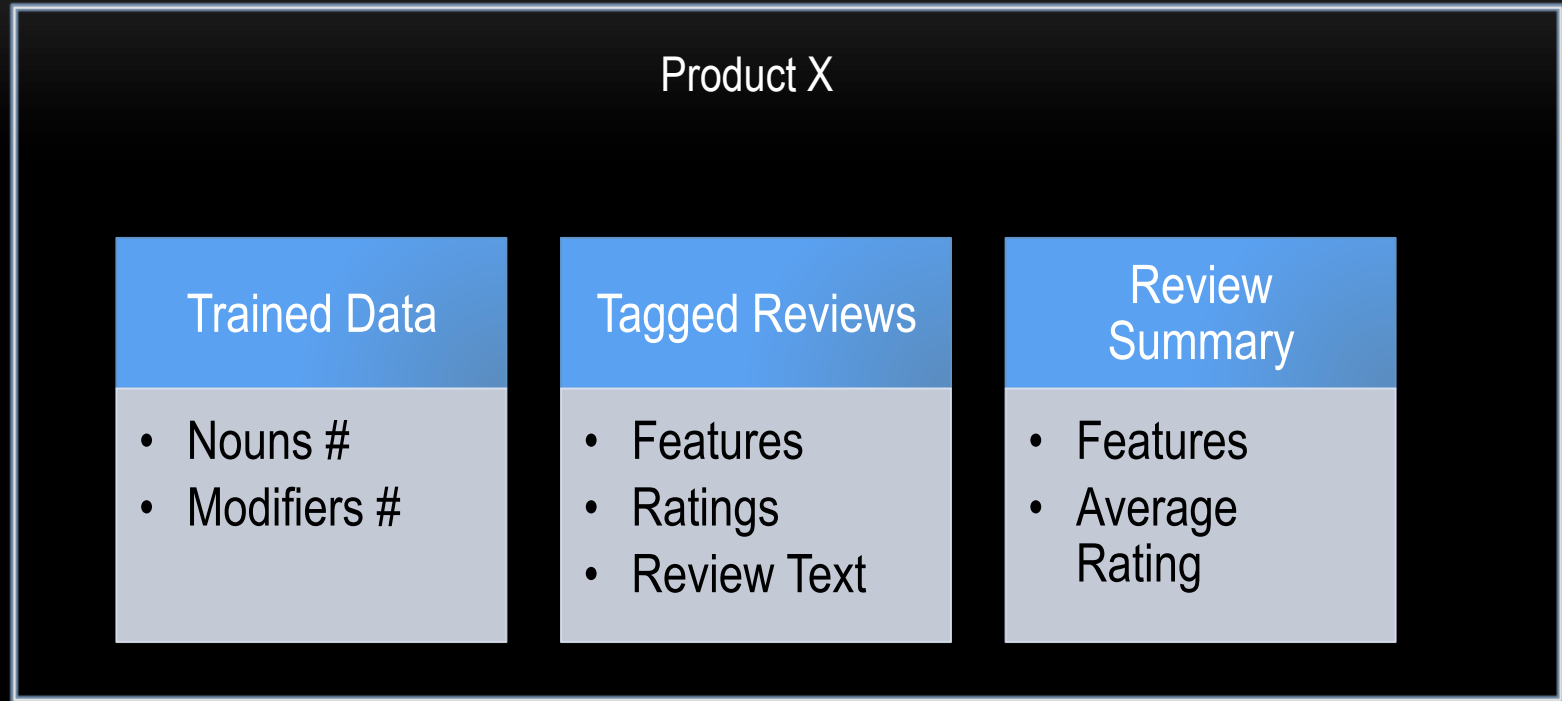
– Tagging and Summarizing –



PARALLELIZING WITH HADOOP

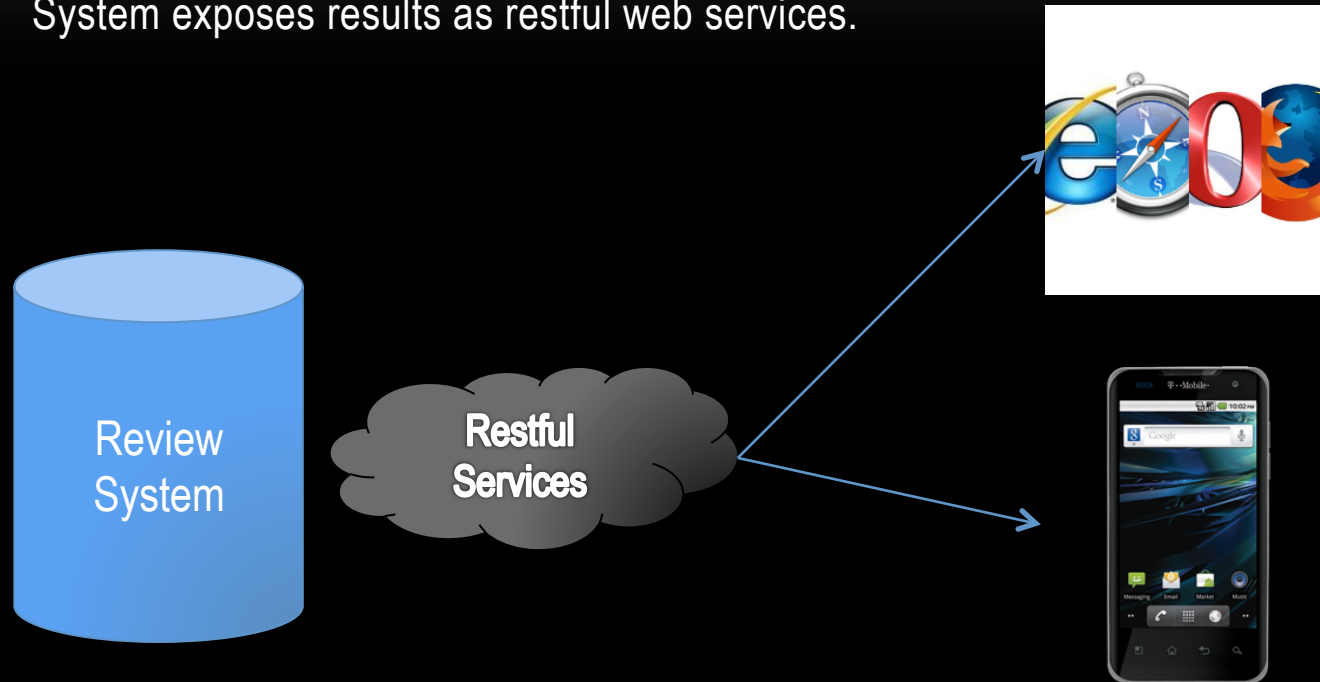


DATABASE SCHEMA



RESTFUL WEB SERVICES

- System exposes results as restful web services.



EXPERIENCES & LEARNING

- NLP Dependency Relationships!!!
- REST is BEST
- SCHEMA defines EVERYTHING!!

FUTURE WORK

- Better feature Extraction.
- Synonym match can be extended with Wordnet::Similarity.
- Can be further optimized for blazing performance.
- Preprocess user query.

TOOLS USED

- NLP
 - Stanford Parser
 - Wordnet (Synonyms)
 - Sentiwordnet
- Hadoop 20.2
- Mongo DB