SENTIMENT ANALYSIS

STEAM REVIEWS

NLP PROJECT SPRING 2016

INTRODUCTION

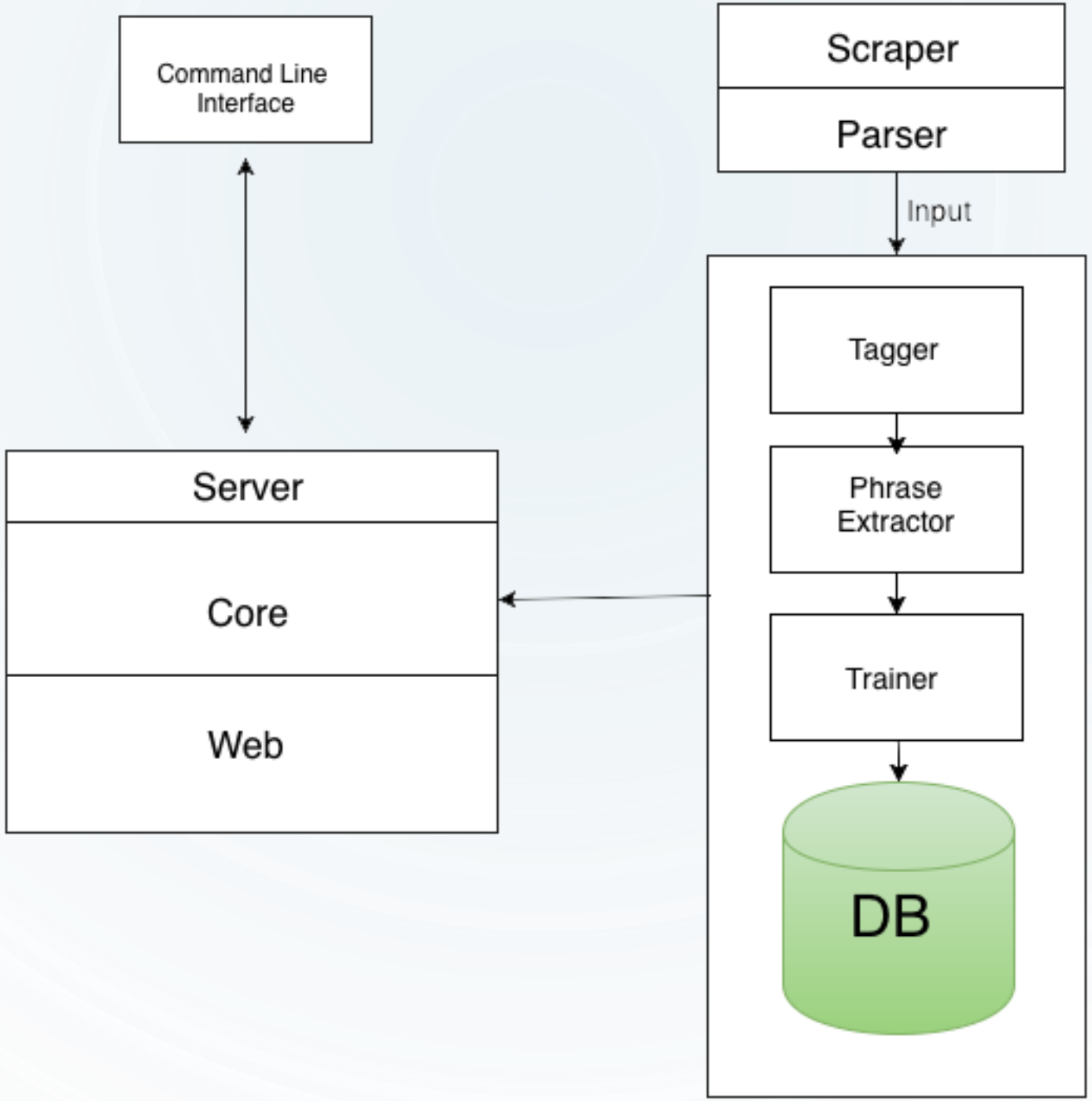
- What is sentiment analysis?
- Why Steam Reviews?

OUR GOAL

- Analyze a review
  - Extract phrases that express sentiments
  - Determine the polarity of those phrases
  - Correctly predict the sentiment of a review

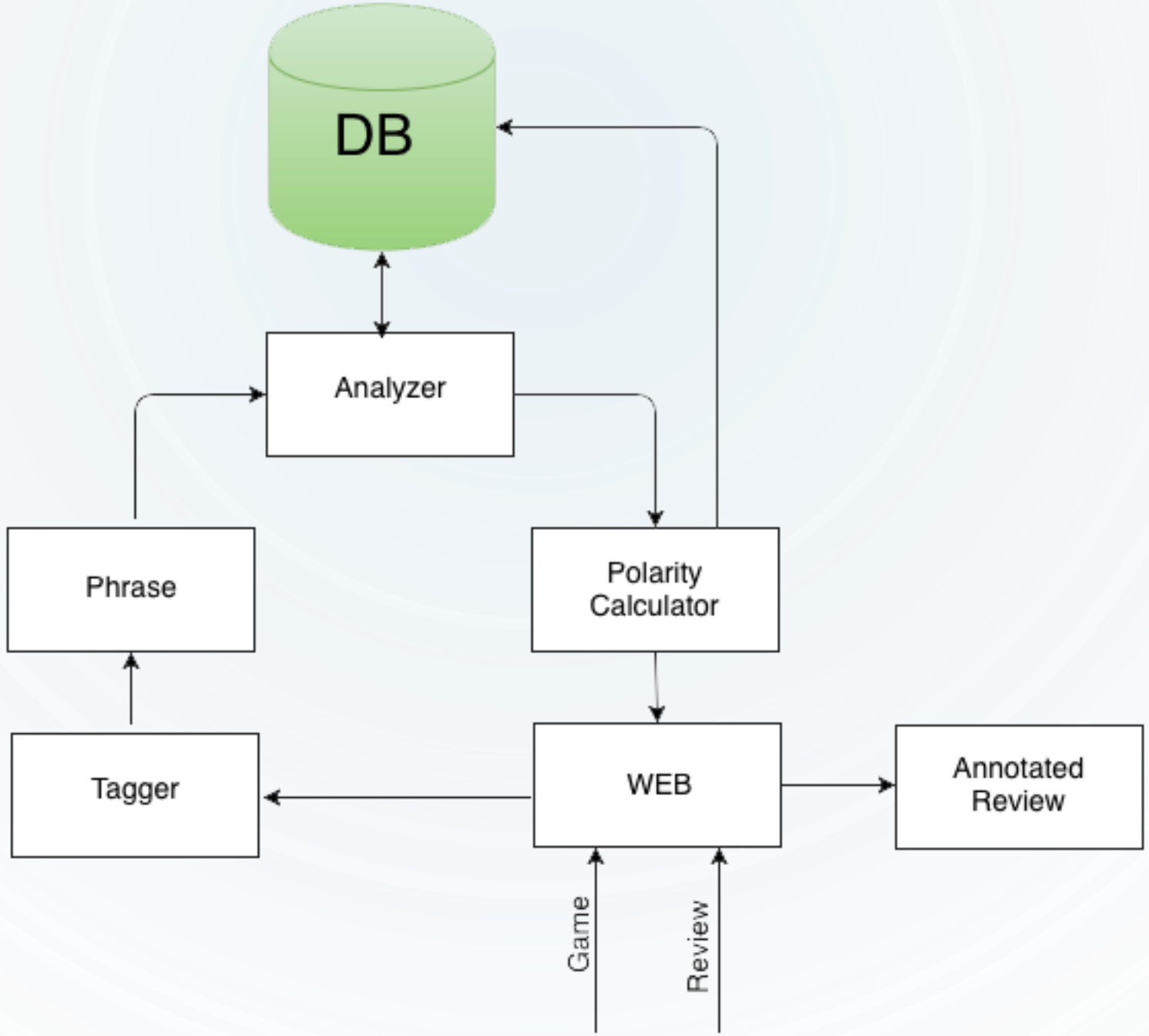
HOW WE DO IT

- Training
  - Scrape Steam’s website
  - Parse scraped data
  - Tag the review bodies with a POS tagger
  - Extract phrasal lexicons
  - Save the phrases to the database


Command Line Interface
Scraper
Parser
Input
Tagger
Phrase Extractor
Trainer
DB
Server
Core
Web

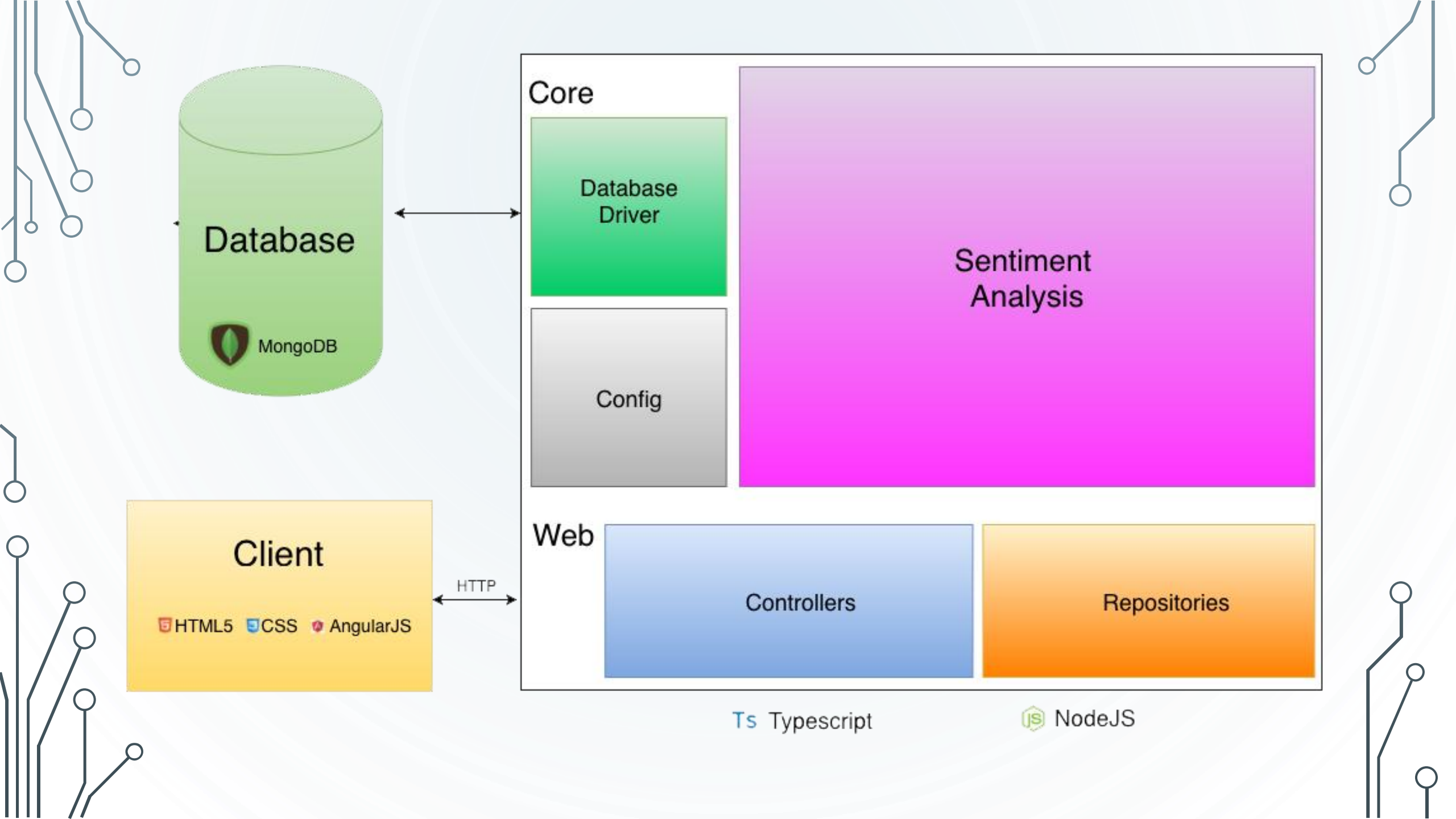
HOW WE DO IT

- Testing
  - Choose game to test on
  - Use training data from every other game
  - Use the counts of relevant phrases to compute polarity
  - Compute average polarity of a review
  - Predict if review is a recommendation


DB
Analyzer
Phrase
Polarity
Calculator
Tagger
WEB
Annotated
Review
Game
Review

IMPLEMENTATION

- Web Application
  - Asynchronous
  - Decoupled
  - Performant
  - Scalable


Database
MongoDB
Core
Database Driver
Config
Sentiment Analysis
Client
HTML5
CSS
AngularJS
HTTP
Web
Controllers
Repositories
Ts Typescript
NodeJS

ENOUGH PRESENTING

MORE DEMOING