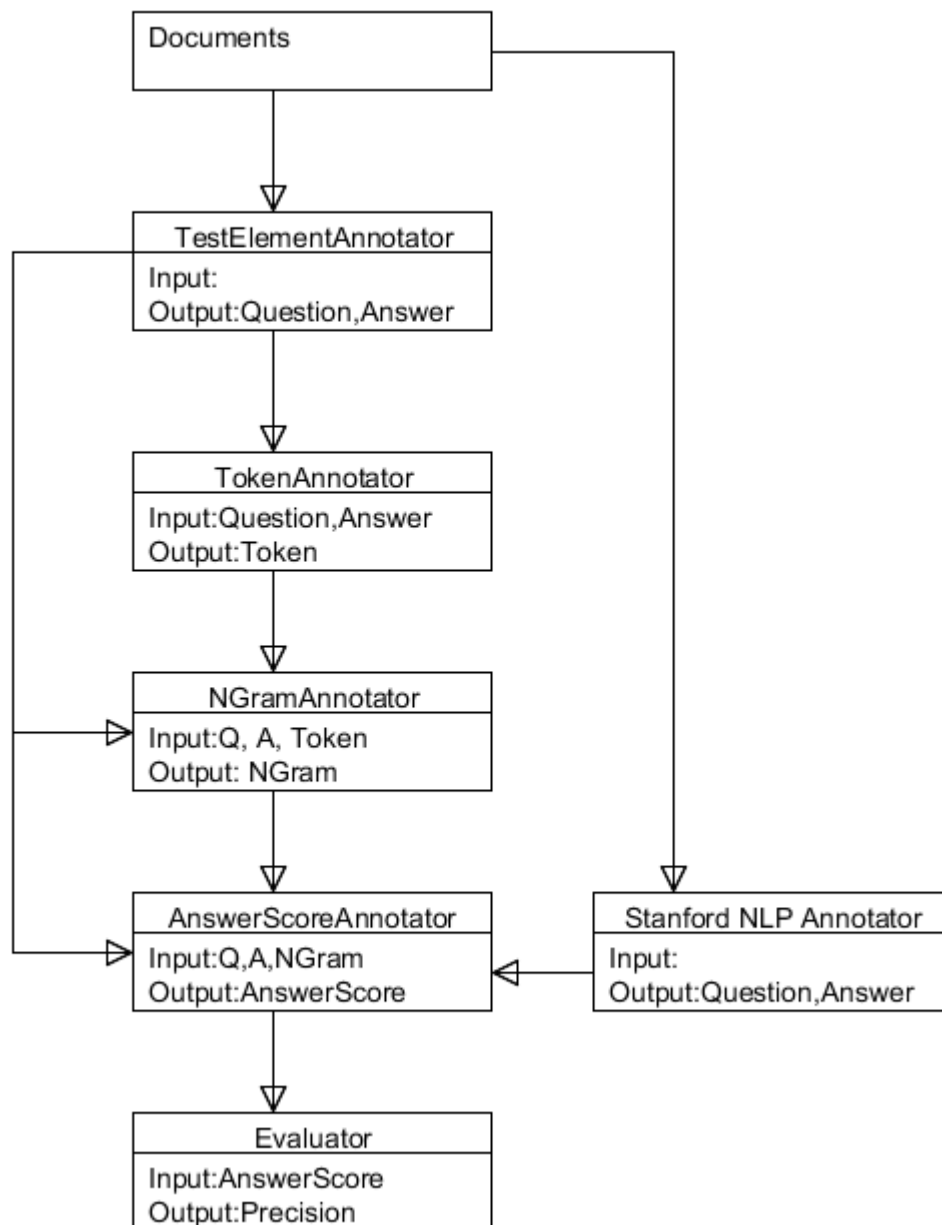


# 11-693 Software Methods for Biotechnology Homework3 Report

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## 1. System Design

Basically, I used the same design as hw2. The new feature is the integrated Stanford NLP Annotator which is used to annotate Name Entity and other tokens.



## 2. Added features

I incorporated the StanfordNLPAnnotator, both remotely and locally to the system, it read the

original document and tokenize and analyze it. The produced result is passed to AnswerScoreAnnotator where these annotations are combined together to score each answer.

### 3. Comparison

#### 3.1. Comparison of precision

Due to limitation of input data, no improvement is produced. But since the semantic component is also analyzed, the system is expected to gain better performance on more complex data.

### 4. Bonus

#### 4.1. I run the StanfordCoreNLP remotely, the result is in Fig.1.

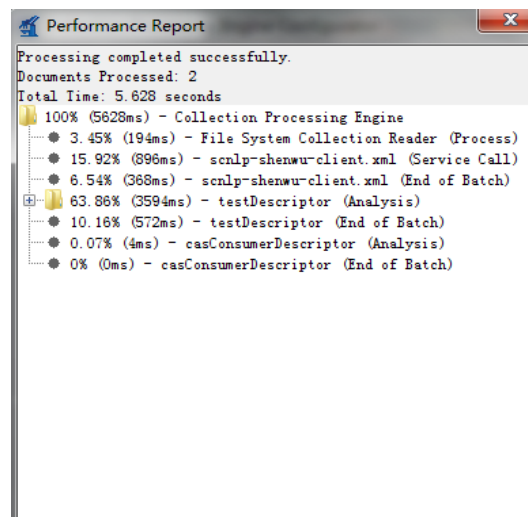


Fig.1

#### 4.2. I incorporated the POS-tagging annotation from Stanford CoreNLP, and extracted all the NNL component.