

# 11-791: Homework 3

Instructed by *Dr. Eric Nyberg*

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## 1 Basic CPE Design

The Collection Reader is just `org.apache.uima.tools.components.FileSystemCollectionReader`.

The AE in my homework 2 will generate an annotation called Evaluation with the precision score. So the consumer just get the Evaluation type and print the precision.

## 2 Using remote service

In my scoring component, I used the NamedEntityMention type from **C**learTK annotator. To locate where an NamedEntityMention occurs, I check the begin index of the annotation and the begin and end index of question annotation and answer annotation. And I count the number of NamedEntityMentions in each question and answer. If the answer has the exact number of NamedEntityMention as the question does, I increased the original score to its 1.1 times. Because I found a larger value actually decrease the precision.

## 3 Result

The original precision is 0.5 and 0.667. When I set the increasing rate to 1.1, the result is the same. But if I increase the rate to 1.2, the result drops to 0.5, 0.333. But as we only have very few training instance, it is hard to tune any parameters.