Report

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According to the requirements, the system processes as following.

First, the TestElementAnnotator reads file and breaks them into token and tokenlist, generate the TokenAnnonator class. TokenAnnonator class is extended by QuestionToken and AnswerToken, which record questions and answers respectively. QuestionToken class has questionId field. AnswerToken class has answerId field. Besides, it uses the field correctness to mark whether it is right or not and rank to record the top N answers.

Then, NGramAnnotator classes examine the AnswerToken in order. After this, AnswerScoror gives each answer a score and record them.

Finally, Evaluator generates the final report. It calculates the precision value, sort the answers according to the scores and record the answerId.