

11-791 HW2-REPORT

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1. Overview-frame

All classes

packages:

annotators:

Classes: AnswerAnnotator
AnswerScoreAnnotator
EvaluationAnnotator
NGramAnnotator
QuestionAnnotator
TokenAnnotator

Classes summarization:

AnswerAnnotator	Find Answer in the text and add Answer annotation. Input: test Doc Output: Answer Annotation
AnswerScoreAnnotator	Find Answer line and, calculate the score and add Answer Score annotation. Input: test Doc, Answer Annotation Output: Answer Score Annotation
EvaluationAnnotator	Print the Answers ordered by score and calculate the Precision. Input: test Doc, AnswerScore Annotation Output: Print Answers ordered by score, Score and Precision
NGramAnnotator	Find NGrams in the text and add NGram annotation Input: test Doc, Token Annotation Output: NGram Annotation
QuestionAnnotator	Find Question in the text and add question annotation. Input: test Doc Output: Question Annotation
TokenAnnotator	Find Tokens in the text and add Token annotation. Input: test Doc Output: Token Annotation

edu.cmu.deiis.types:

Classes: Annotation
Annotation_Type
Answer
Answer_Type
AnswerScore
AnswerScore_Type
NGram
NGram_Type
Question

Question_Type

Token

Token_Type

2. Class hierarchy

- java.lang.Object
 - org.apache.uma.analysis_component.AnalysisComponent_ImplBase (implements org.apache.uma.analysis_component.AnalysisComponent)
 - org.apache.uma.analysis_component.Annotator_ImplBase
 - org.apache.uma.analysis_component.JCasAnnotator_ImplBase
 - annotators.[AnswerAnnotator](#)
 - annotators.[AnswerScoreAnnotator](#)
 - annotators.[EvaluationAnnotator](#)
 - annotators.[NGramAnnotator](#)
 - annotators.[QuestionAnnotator](#)
 - annotators.[TokenAnnotator](#)
 - org.apache.uma.cas.impl.FeatureStructureImpl (implements java.lang.Cloneable, org.apache.uma.cas.FeatureStructure)
 - org.apache.uma.jcas.cas.TOP
 - org.apache.uma.jcas.cas.AnnotationBase (implements org.apache.uma.cas.AnnotationBaseFS)
 - org.apache.uma.jcas.tcas.Annotation (implements org.apache.uma.cas.text.AnnotationFS)
- edu.cmu.deiis.types.[Annotation](#)
 - edu.cmu.deiis.types.[Answer](#)
 - edu.cmu.deiis.types.[AnswerScore](#)
 - edu.cmu.deiis.types.[NGram](#)
 - edu.cmu.deiis.types.[Question](#)
 - edu.cmu.deiis.types.[Token](#)
- org.apache.uma.jcas.cas.TOP_Type
 - org.apache.uma.jcas.cas.AnnotationBase_Type
 - org.apache.uma.jcas.tcas.Annotation_Type
- edu.cmu.deiis.types.[Annotation_Type](#)
 - edu.cmu.deiis.types.[Answer_Type](#)
 - edu.cmu.deiis.types.[AnswerScore_Type](#)
 - edu.cmu.deiis.types.[NGram_Type](#)
 - edu.cmu.deiis.types.[Question_Type](#)
 - edu.cmu.deiis.types.[Token_Type](#)

3. Component Descriptor Aggregation

NGramEngine:

Aggregate:

NGramAnnotaor, TokenAnnotaor

EngineFlow:

1: TokenAnnotaor

2:NGramAnnotator

HW2-YIS1-AAE:

Aggregate:

AnswerAnnotator

AnswerScoreAnnotator

QuestionAnnotator

TokenAnnotator

NGramAnnotator

EngineFlow:

1:QuestionAnnotator

2:AnswerAnnotator

3:NGramAnnotator

4:AnswerScoreAnnotator

5:EvaluationAnnotator