

Report

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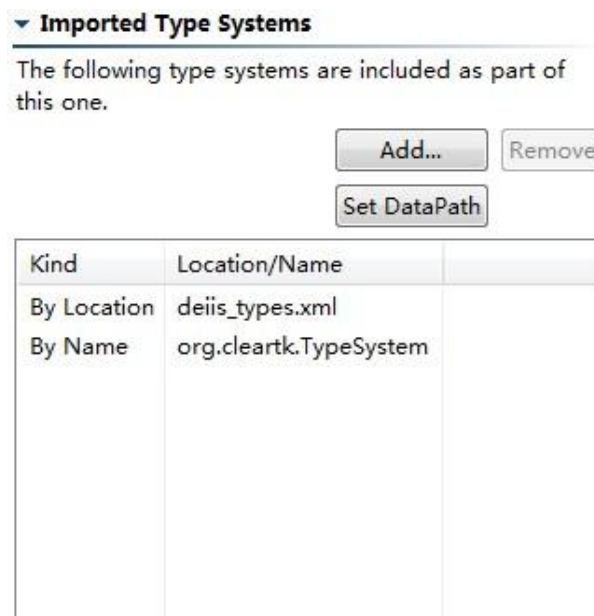
In task 1, When I created a Collection Reader, I just used `org.apache.uima.tools.components.FileSystemCollectionReader` directly and used same parameter settings as in the `uima-as-examples`. Then I created the Cas Consumer based on the Evaluator component of `hw-2`. Since the Collection Reader returns CASes(not JCas) , I made some changes in my `hw-2` code to fit it.

```
JCas jcas;  
try {  
    jcas = aCAS.getJCas();  
}  
catch (CException e) {  
    throw new ResourceProcessException(e);  
}  
...(some other changes)...
```

Then I run CPE GUI and saved the CPE descriptor

In task 2.2, I added `cleartk-stanford-corenlp` and `uimaj-as-activemq` to the dependencies and newed an XML(`scnlp-qiwenz-client.xml`) to for a remote UIMA-AS service and I used the Name Entity annotations from the Stanford CoreNLP service into my answer scoring component.(just 'use', not 'integrate')

At first, It has some errors when I try to run the new `AnswerScoreAnnotator.java`, After I added `org.cleartk.TypeSystem` to the `AnswerScoreAnnotatorDescriptor's Type System` and `scnlp-qiwenz-client` to `hw2-qiwenz-aae`. The errors disappeared and the CPE GUI run very well.(I run `aae` since the code is in answer scoring component)



collectionReaderDescriptor.xml hw2-qiwenz-aae.xml

Aggregate Delegates and Flows

Component Engines

The following engines are included in this aggregate.

Delegate	Key Name
scnlp-qiwenz-client	scnlp-qiwe
descriptors/AnswerScoreAnnotatorDescriptor.xml	AnswerSco
descriptors/TokenAnnotatorDescriptor.xml	TokenAnnc
descriptors/NGramAnnotatorDescriptor.xml	NGramAnnr
descriptors/AnswerAnnotatorDescriptor.xml	AnswerAnn
descriptors/EvaluationAnntatorDescriptor.xml	Evaluation
descriptors/QuestionAnnotatorDescriptor.xml	QuestionAi

Add... Remove

Component Engine Flow

Choose a flow type and describe the execution order of your engines.
The table shows the delegates using their key names.

Flow Kind: Fixed Flow

Flow Controller: Browse...

Key Name: Search

- TokenAnnotatorDescriptor
- NGramAnnotatorDescriptor
- AnswerAnnotatorDescriptor
- QuestionAnnotatorDescriptor
- scnlp-qiwenz-client
- AnswerScoreAnnotatorDescriptor
- EvaluationAnntatorDescriptor

Up Down

Overview Aggregate Parameters Parameter Settings Type System Capabilities Indexes Resources Source

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Collection Processing Engine Configurator

File View Help

Collection Reader

Analysis Engines

Add... << >>

☒ hw2-qiwenz-aae

CAS Consumers

Add... << >>

☒ CasConsumerDescriptor

Output Directory:

Performance Report

Processing completed successfully.

Documents Processed: 2

Total Time: 1.02 seconds

- 100% (1020ms) - Collection Processing Engine
 - 12.55% (128ms) - collectionReaderDescriptor (Process)
 - 83.73% (854ms) - hw2-qiwenz-aae (Analysis)
 - 2.94% (30ms) - hw2-qiwenz-aae (End of Batch)
 - 0.78% (8ms) - CasConsumerDescriptor (Analysis)
 - 0% (0ms) - CasConsumerDescriptor (End of Batch)

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```

<terminated> UIMA CPE GUI [Java Application] C:\Program Files\Java\jdk1.6.0_45\bin\javaw.exe (2013年10月7日 下午2:55:21)
log4j:WARN No appenders could be found for logger (org.apache.activemq.transport.WireFormatNegotiator).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN No appenders could be found for logger (org.apache.activemq.transport.tcp.TcpTransport).
log4j:WARN Please initialize the log4j system properly.
nameEntity: Token
sofa: _InitialView
begin: 0
end: 1
score: 0.0
pos: "NNP"
stem: <null>
lemma: "Q"

nameEntity: Token
sofa: _InitialView
begin: 2
end: 7
score: 0.0
pos: "NNP"
stem: <null>
lemma: "Booth"

nameEntity: Token
sofa: _InitialView
begin: 13
end: 20
score: 0.0
pos: "NNP"
stem: <null>
lemma: "Lincoln"

```

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In task 2.3, I created deployment descriptor and client descriptor as the assignment asked and started the UIMA-AS Broker locally and deployed my service to my local broker.

```

C:\> 管理员: F:\apache-uima-as-2.4.0\bin\cmd.exe - startBroker.bat

bin\activemq.bat " "xbean:file:amq/conf/activemq-nojournal.xml"
Java Runtime: Sun Microsystems Inc. 1.6.0_45 C:\Program Files\Java\jdk1.6.0_45\j
re
Heap sizes: current=61952k free=59048k max=466048k
JVM args: -Dcom.sun.management.jmxremote -Xmx512M -Dorg.apache.activemq.UseD
edicatedTaskRunner=true -Djava.util.logging.config.file=logging.properties -Da
ctivemq.classpath=amq/conf;F:\apache-uima-as-2.4.0\apache-activemq-5.4.1\conf; -Da
ctivemq.home=F:\apache-uima-as-2.4.0\apache-activemq-5.4.1 -Dactivemq.base=amq
ACTIVEMQ_HOME: F:\apache-uima-as-2.4.0\apache-activemq-5.4.1
ACTIVEMQ_BASE: amq
Loading message broker from: xbean:file:amq/conf/activemq-nojournal.xml
INFO ManagementContext - JMX consoles can connect to service:jmx:r
mi:///jndi/rmi://localhost:1099/jmxrmi
INFO BrokerService - Using Persistence Adapter: MemoryPersiste
nceAdapter
INFO BrokerService - ActiveMQ 5.4.1 JMS Message Broker <localh
ost> is starting
INFO BrokerService - For help or more information please see:
http://activemq.apache.org/
INFO TransportServerThreadSupport - Listening for connections at: tcp://Chive
n-PC:61616
INFO TransportConnector - Connector openwire Started
INFO BrokerService - ActiveMQ JMS Message Broker <localhost, I
D:Chiven-PC-1393-1380922685797-0:0> started

```

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```
管理员: F:\apache-uima-as-2.4.0\bin\cmd.exe - deployAsyncService.cmd C:\Users\Chiven\g...
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

F:\apache-uima-as-2.4.0\bin>deployAsyncService.cmd C:\Users\Chiven\git\hw3-qiwenz-ziy-proto\src\main\resources\hw2-qiwenz-aae-deploy.xml
Service:TokenAnnotatorDescriptor Initialized. Ready To Process Messages From Queue:inQ_TokenAnnotatorDescriptor_1.1
Service:AnswerAnnotatorDescriptor Initialized. Ready To Process Messages From Queue:inQ_AnswerAnnotatorDescriptor_1.3
Service:NGramAnnotatorDescriptor Initialized. Ready To Process Messages From Queue:inQ_NGramAnnotatorDescriptor_1.2
Service:QuestionAnnotatorDescriptor Initialized. Ready To Process Messages From Queue:inQ_QuestionAnnotatorDescriptor_1.4
Service:EvaluationAnntatorDescriptor Initialized. Ready To Process Messages From Queue:inQ_EvaluationAnntatorDescriptor_1.6
Service:AnswerScoreAnnotatorDescriptor Initialized. Ready To Process Messages From Queue:inQ_AnswerScoreAnnotatorDescriptor_1.5
Service:hw2-qiwenz-aae Initialized. Ready To Process Messages From Queue:myQueue
Name
Press 'q'+Enter' to quiesce and stop the service or 's'+Enter' to stop it now.

Note: selected option is not echoed on the console.
```

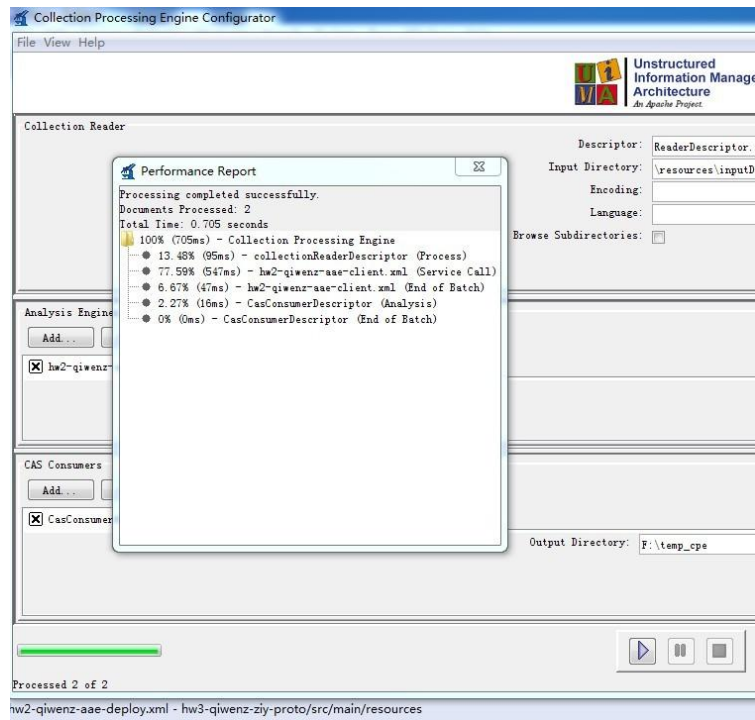
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```
管理员: F:\apache-uima-as-2.4.0\bin\cmd.exe - deployAsyncService.cmd C:\Users\Chiven\g...
Service:AnswerScoreAnnotatorDescriptor Initialized. Ready To Process Messages From Queue:inQ_AnswerScoreAnnotatorDescriptor_1.5
Service:hw2-qiwenz-aae Initialized. Ready To Process Messages From Queue:myQueue
Name
Press 'q'+Enter' to quiesce and stop the service or 's'+Enter' to stop it now.

Note: selected option is not echoed on the console.
[Booth shot Lincoln?]
1 1.00 Booth shot Lincoln.
0 0.50 Lincoln shot Booth.
0 0.33 Lincoln assassinated Booth.
1 0.33 Booth assassinated Lincoln.
0 0.25 Booth was shot by Lincoln.
1 0.25 Lincoln was shot by Booth.
0 0.17 Booth was assassinated by Lincoln.
1 0.17 Lincoln was assassinated by Booth.

[John loves Mary?]
1 1.00 John loves Mary.
1 0.33 John loves Mary with all his heart.
0 0.17 John doesn't love Mary.
0 0.17 Mary doesn't love John.
1 0.13 Mary is dearly loved by John.
```

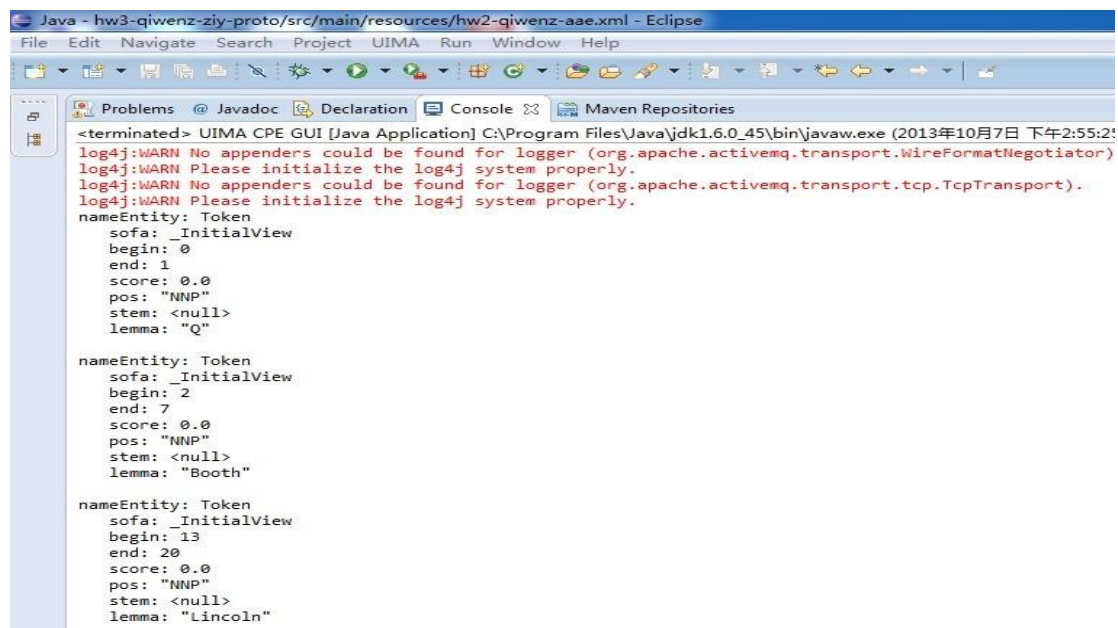
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2-8

At first, I met some problem when I tried to deploy my service to my local broker. Then I found out that it was because I didn't set the UIMA_CLASSPATH correctly. Then I changed UIMA_CLASSPATH to ...\\git\\hw3-qiwenz\\hw3-qiwenz-ziy-proto\\target\\classes and finally got rid of the problem.

In task 2.4 Bonus, I incorporated the POS-tagging in my answer scoring component (e.g. "token.getPos()"), I'm not sure whether it counts). Actually, Shen Wu gave me a lot of help in this part.



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