Report

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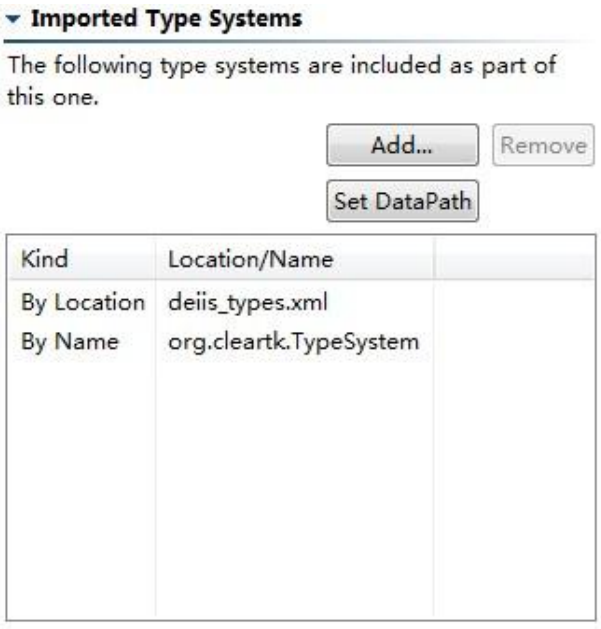
In task 1, When I created a Collection Reader, I just used org.apache.uima.tools.components.FileSystemCollectionReader directly and used same parameter settings as in the uima-as-examples. Then I created the Cas Consumer based on the Evaluator component of hw-2. Since the Collection Reader returns CASes(not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

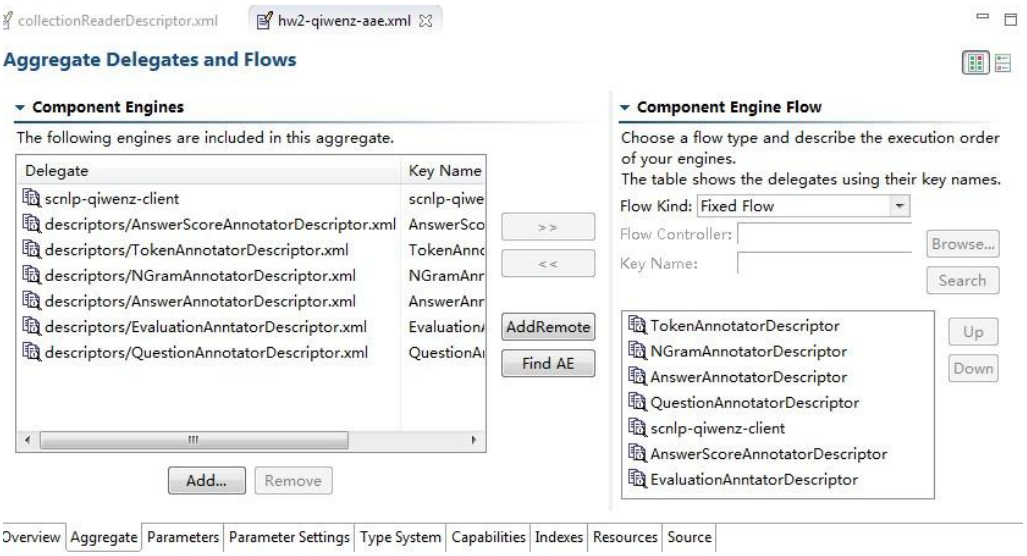
```
JCas jcas;
    try {
     jcas = aCAS.getJCas();
    }
    catch (CASException e) {
         throw new ResourceProcessException(e);
    }
    …(some other changes)…
```

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
descriptors/AnswerScoreAnnotatorDescriptor.xml
descriptors/TokenAnnotatorDescriptor.xml
descriptors/NGramAnnotatorDescriptor.xml
descriptors/AnswerAnnotatorDescriptor.xml
descriptors/EvaluationAnntatorDescriptor.xml
descriptors/QuestionAnnotatorDescriptor.xml
>>
<<
AddRemote
Find AE
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:
Key Name:
Browse...
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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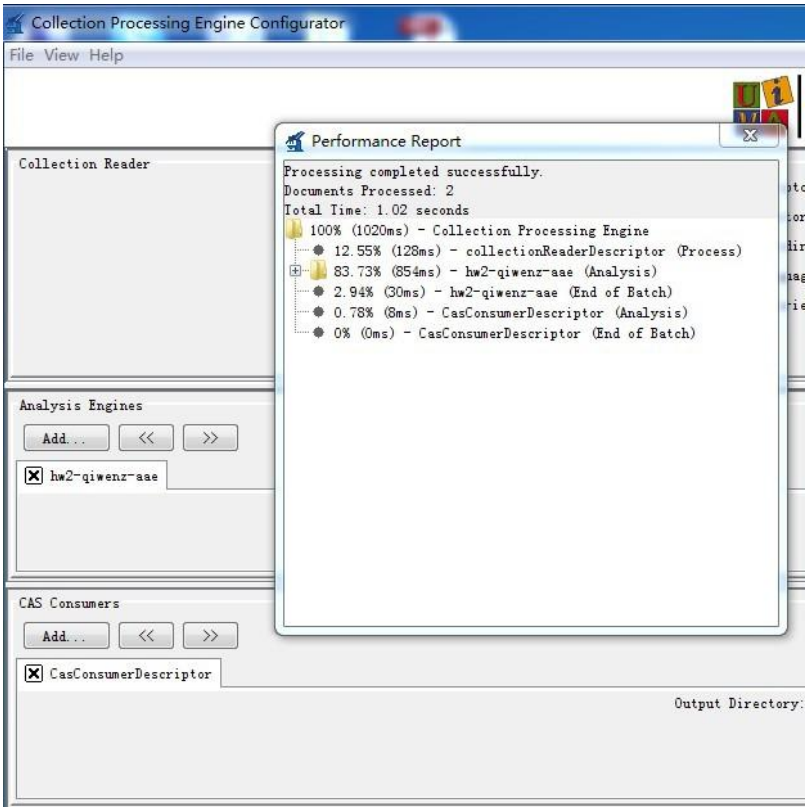
Collection Processing Engine Configurator
File View Help
Collection Reader
Performance Report
Processing completed successfully.
Documents Processed: 2
Total Time: 1.02 seconds
100% (1020ms) - Collection Processing Engine
12.55% (128ms) - collectionReaderDescriptor (Process)
83.73% (854ms) - hw2-qiwenz-aae (Analysis)
2.94% (30ms) - hw2-qiwenz-aae (End of Batch)
0.78% (8ms) - CasConsumerDescriptor (Analysis)
0% (0ms) - CasConsumerDescriptor (End of Batch)
Analysis Engines
Add...
hw2-qiwenz-aae
CAS Consumers
Add...
CasConsumerDescriptor
Output Directory:

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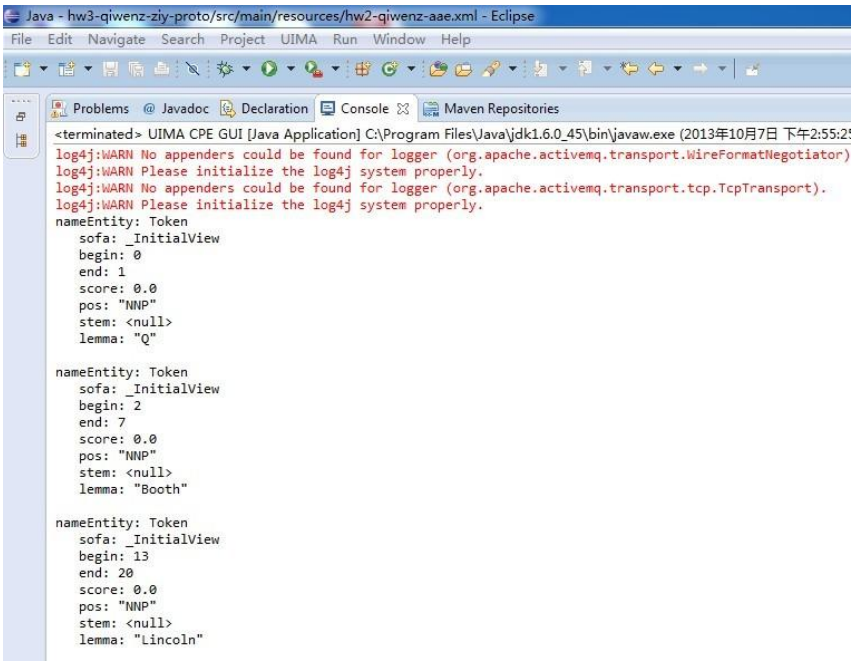

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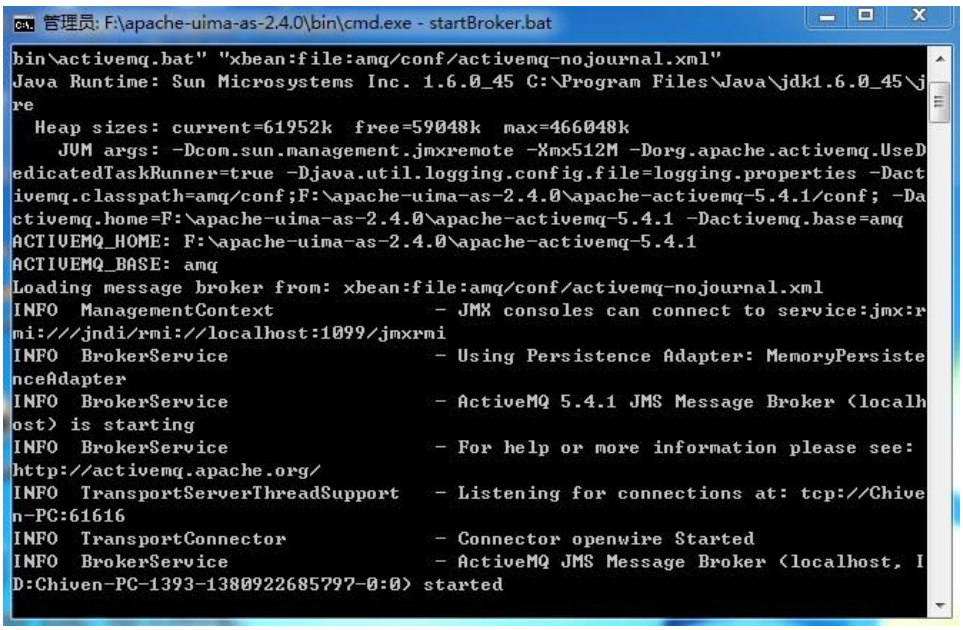
In task 2.3, I created deployment descriptor and client descriptor as the assignment asked and started the UIMA-AS Broker locally and deployed my service to my local broker.



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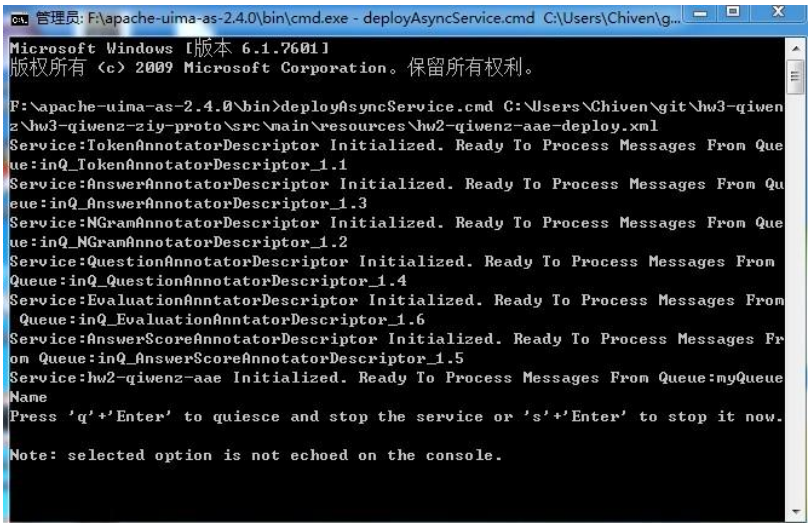
管理员: F:\apache-uima-as-2.4.0\bin\cmd.exe - deployAsyncService.cmd C:\Users\Chiven\g...
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。
F:\apache-uima-as-2.4.0\bin>deployAsyncService.cmd C:\Users\Chiven\git\hw3-qiwen
z\hw3-qiwenz-ziy-proto\src\main\resources\hw2-qiwenz-aae-deploy.xml
Service:TokenAnnotatorDescriptor Initialized. Ready To Process Messages From Que
ue:inQ_TokenAnnotatorDescriptor_1.1
Service:AnswerAnnotatorDescriptor Initialized. Ready To Process Messages From Qu
eue:inQ_AnswerAnnotatorDescriptor_1.3
Service:NGramAnnotatorDescriptor Initialized. Ready To Process Messages From Que
ue: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 Fr
om 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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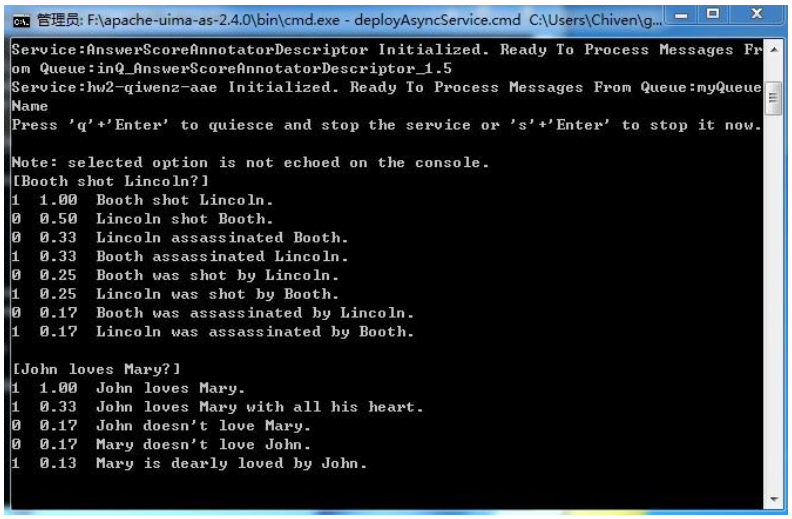
管理员: F:\apache-uima-as-2.4.0\bin\cmd.exe - deployAsyncService.cmd C:\Users\Chiven\g...
Service:AnswerScoreAnnotatorDescriptor Initialized. Ready To Process Messages Fr
om Queue:inQ_AnswerScoreAnnotatorDescriptor_1.5
Service:hw2-qiwenz-aae Initialized. Ready To Process Messages From Queue:myQueue
Name
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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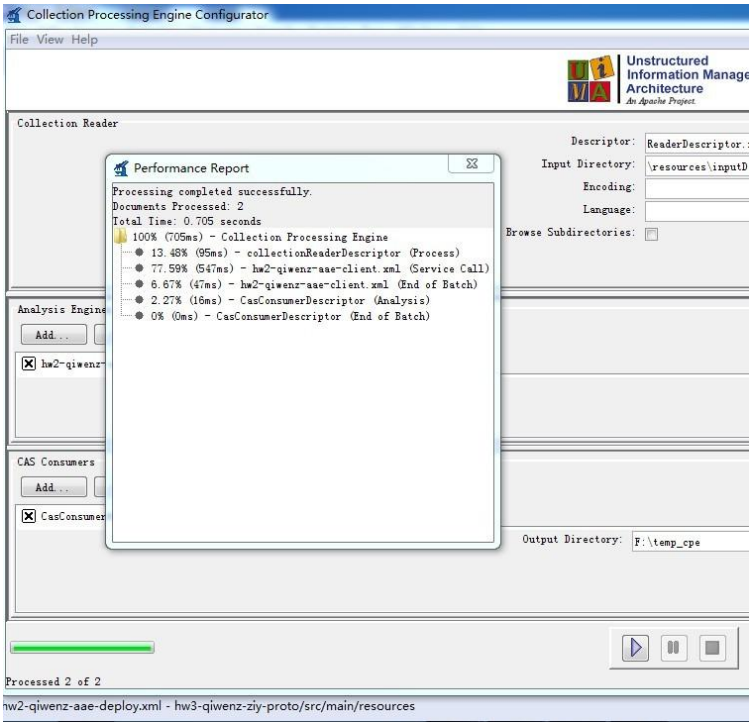

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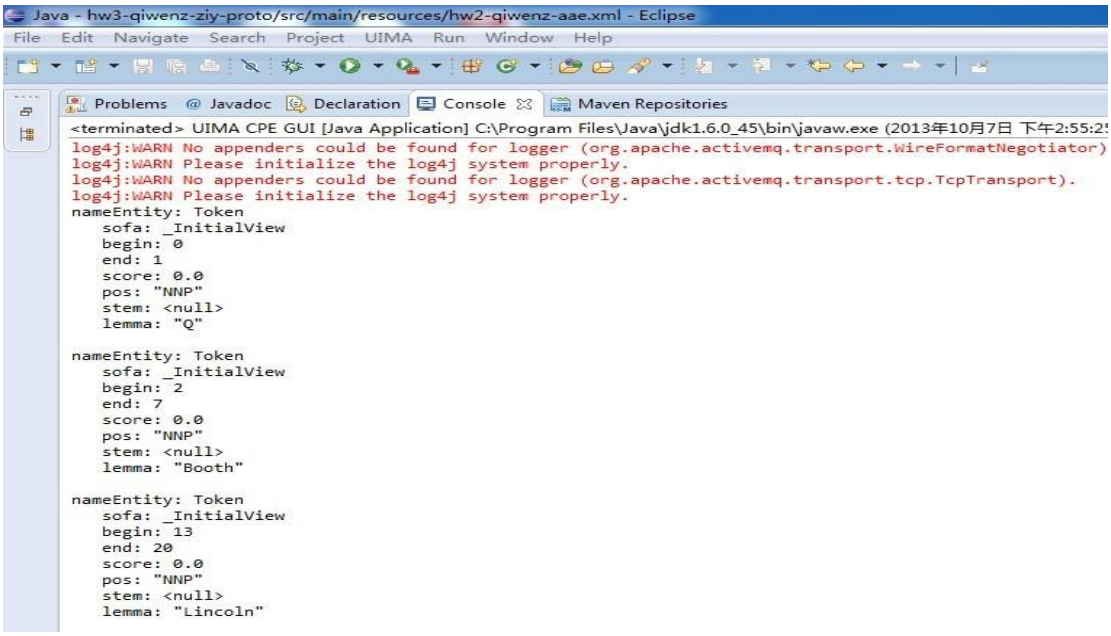
At first, I met some problem when I tried to deploy my service to my local broker. Then I found out that it was because I didn't set the UIMA_CLASSPATH correctly. Then I changed UIMA_CLASSPATH to …\git\hw3-qiwenz\hw3-qiwenz-ziy-proto\target\classes and finally got rid of the problem.

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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