

11-791 HW3-REPORT

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Task 1.2

1. Collection Reader

FileSystemCollectionReader.xml

Overview

Implementation Details

Runtime Information

This section describes information about how to run this component

☒ updates the CAS

Name of the Java class file

Overall Identification Information

This section specifies the basic identification information for this descriptor

Name

Version

Vendor

Description:

Overview

Parameters

Parameter Settings

Type System

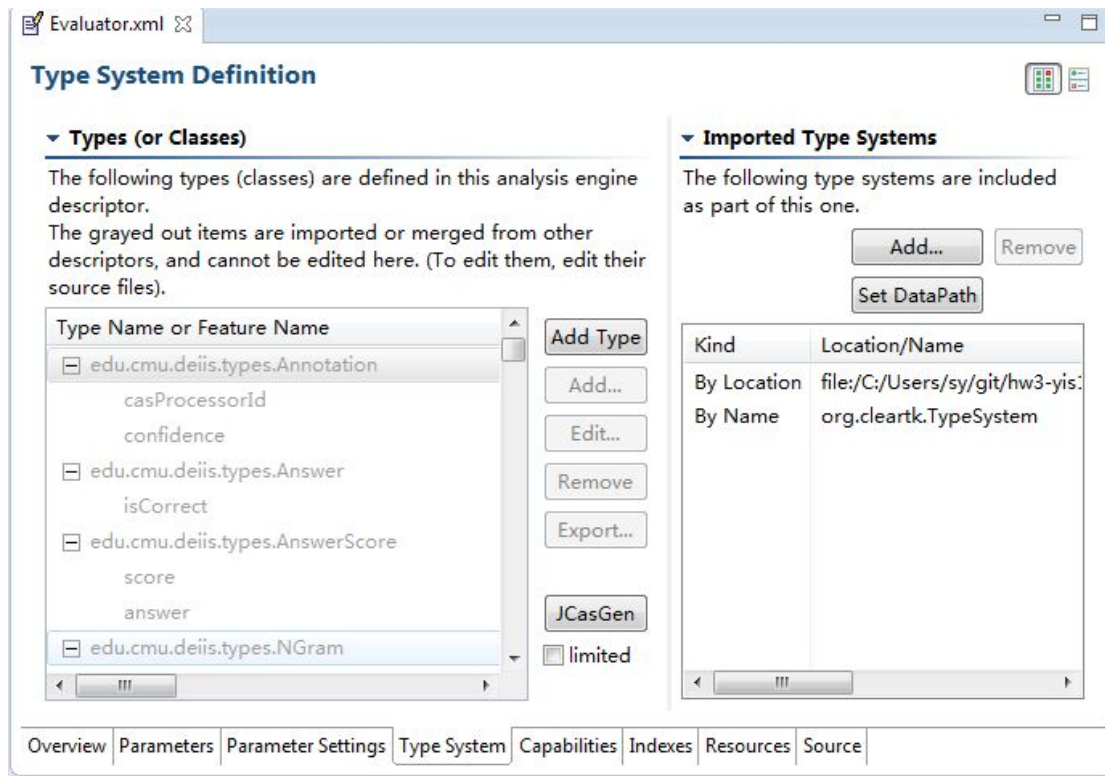
Capabilities

Indexes

Resources

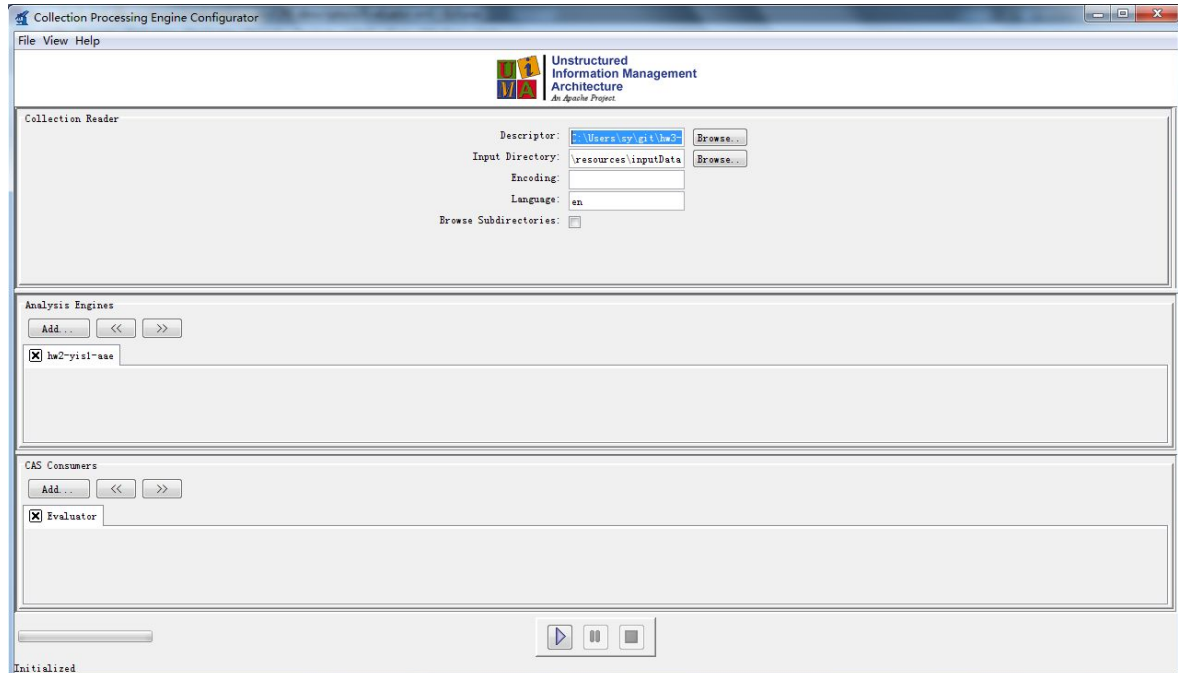
Source

2. Cas Consumer



My Cas Consumer named Evaluator, and in this HW, as we need to get the NameEntity from StanfordCoreNLP, cleartk.TypeSystem was added in this descriptor.

3. CPE descriptor



4. Output

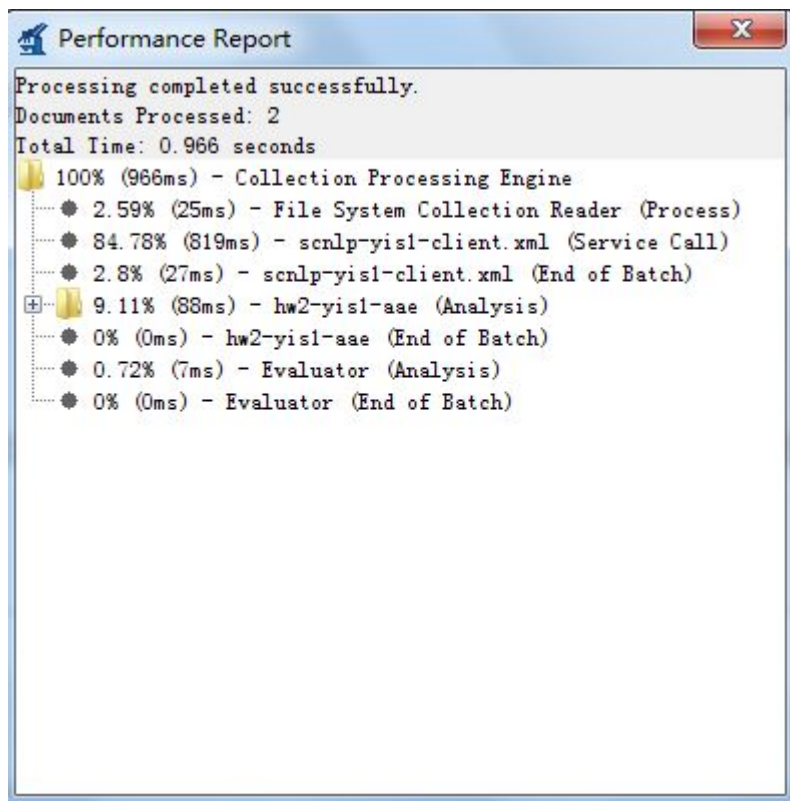
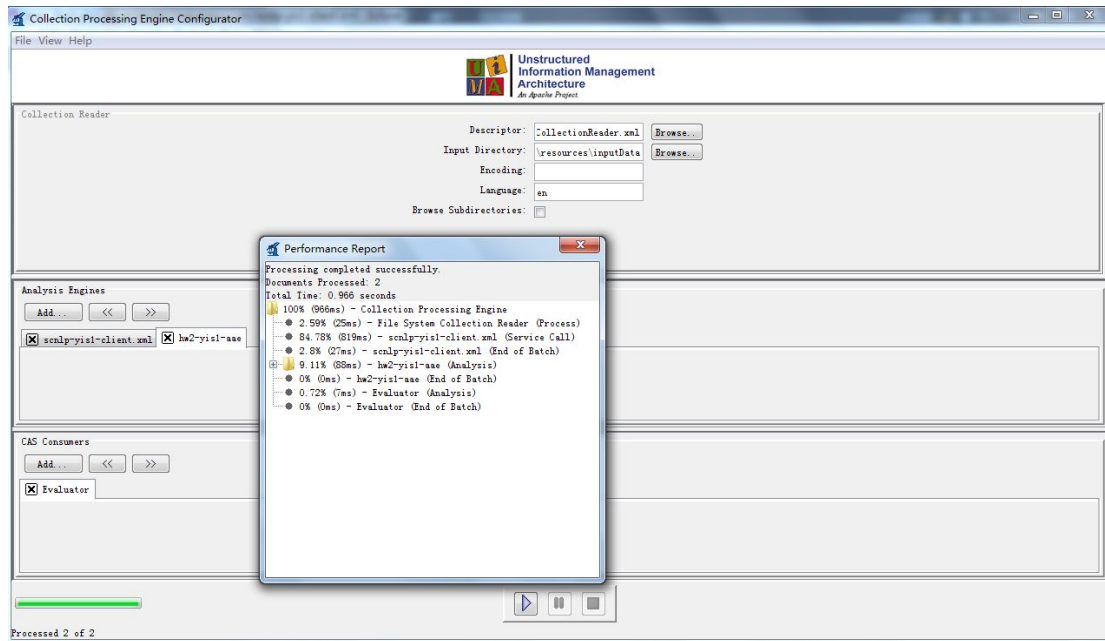
```
Problems @ Javadoc Declaration Console Maven Repositories Error Log
UIMA CPE GUI [Java Application] C:\Program Files\Java\jre6\bin\javaw.exe (2013年10月9日 下午2:32:39)
Question: Q Booth shot Lincoln?
+ 1.00 Booth shot Lincoln.
- 0.50 Lincoln shot Booth.
+ 0.33 Booth assassinated Lincoln.
- 0.33 Lincoln assassinated Booth.
+ 0.25 Lincoln was shot by Booth.
- 0.25 Booth was shot by Lincoln.
+ 0.17 Lincoln was assassinated by Booth.
- 0.17 Booth was assassinated by Lincoln.
Precision at 4: 0.50
Question: Q Booth shot Lincoln?
+ 1.00 Booth shot Lincoln.
- 0.50 Lincoln shot Booth.
+ 0.33 Booth assassinated Lincoln.
- 0.33 Lincoln assassinated Booth.
+ 0.25 Lincoln was shot by Booth.
- 0.25 Booth was shot by Lincoln.
+ 0.17 Lincoln was assassinated by Booth.
- 0.17 Booth was assassinated by Lincoln.
Precision at 4: 0.50
Question: Q John loves Mary?
+ 1.00 John loves Mary.
+ 0.33 John loves Mary with all his heart.
- 0.22 John doesn't love Mary.
- 0.22 Mary doesn't love John.
+ 0.13 Mary is dearly loved by John.
Precision at 3: 0.67
Question: Q John loves Mary?
+ 1.00 John loves Mary.
+ 0.33 John loves Mary with all his heart.
- 0.22 John doesn't love Mary.
- 0.22 Mary doesn't love John.
+ 0.13 Mary is dearly loved by John.
Precision at 3: 0.67
```

Task 2.2

1.create an UIMA-AS client descriptor (scnlp-ID-client.xml)

```
scnlp-yis1-client.xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<customResourceSpecifier xmlns="http://uima.apache.org/resourceSpecifier">
  <resourceClassName>org.apache.uima.aae.jms_adapter.JmsAnalysisEngineServiceAdapter</resourceClassName>
  <parameters>
    <parameter name="brokerURL" value="tcp://mu.lti.cs.cmu.edu:61616"/>
    <parameter name="endpoint" value="ScnlpQueue"/>
    <parameter name="timeout" value="5000"/>
    <parameter name="getmetatimeout" value="5000"/>
    <parameter name="cpctimeout" value="5000"/>
  </parameters>
</customResourceSpecifier>
```

2.integrate your client with your CPE pipeline



From the Performance Report we can see that calling scnlp-Service takes 86.78% time.

3. Output of my CPE pipeline

```

UIMA CPE GUI [Java Application] C:\Program Files\Java\jre6\bin\javaw.exe (2013年10月9日 下午2:37:03)
Question: Q Booth shot Lincoln?
+ 1.00 Booth shot Lincoln.
- 0.50 Lincoln shot Booth.
+ 0.33 Booth assassinated Lincoln.
- 0.33 Lincoln assassinated Booth.
+ 0.25 Lincoln was shot by Booth.
- 0.25 Booth was shot by Lincoln.
+ 0.17 Lincoln was assassinated by Booth.
- 0.17 Booth was assassinated by Lincoln.
Precision at 4: 0.50
Q Booth
Lincoln
A 1 Booth shot Lincoln.
1
Lincoln
A 0 Lincoln shot Booth.
0
Lincoln
Booth
A 1 Lincoln
1
Lincoln
Booth
A 0 Booth
0
Booth
Lincoln
A 1 Booth
1
Lincoln
A 0 Lincoln assassinated Booth.
0
Lincoln
Booth
A 1 Lincoln
1
Lincoln
Booth
A 0 Booth
0

```

Output is the evaluator result and NameEntity Annotation.

4. When adding dependency, an error came out. Missing artifact com.sun:tools:jar:1.5.0

```

<dependency>
  <groupId>com.sun</groupId>
  <artifactId>tools</artifactId>
  <version>1.5.0</version>
</dependency>

```

And copy the tools.jar to the director solve the problem finally.

Task 2.3

1. Create a deployment descriptor

scnlp-yis1-client.xml hw2-yis1-aae-deploy.xml

Overview

Service Information

The following is the deployment information for the service.

Broker URL for input queue:	tcp://sy-PC:61616
Name for input queue:	myQueueName
Number of requests that might be prefetched:	0
Number of CASes in CAS pool:	1
Initial size of CAS heap (in bytes):	2000000
Top analysis engine descriptor	file:/C:/Users/sy/git/hw3-yis1/hw3-yis1/src/main/resources/hw

Import by: Location

☐ Run top level C++ component in a separate process

General Information

Overview Deployment Configurations Source

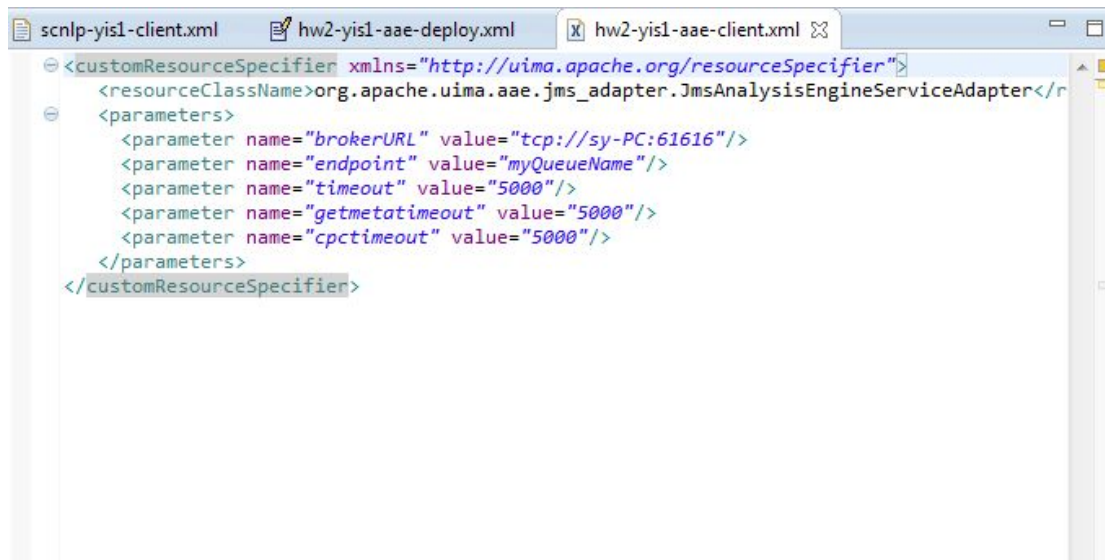
2. Start a UIMA-AS broker and deploy your service.

```

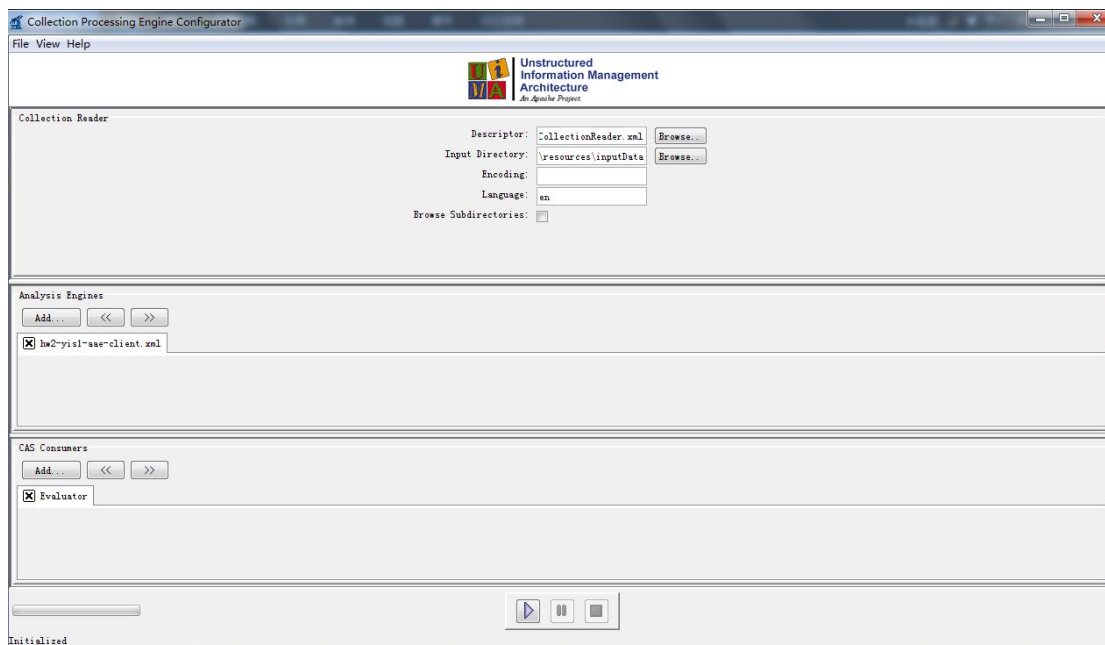
C:\Windows\system32\cmd.exe - startBroker.bat

Heap sizes: current=92736k free=90795k max=466048k
JVM args: -Dcom.sun.management.jmxremote -Xmx512M -Dorg.apache.activemq.UseD
edicatedTaskRunner=true -Djava.util.logging.config.file=logging.properties -Dact
ivemq.classpath=amq/conf;F:\uima-as-2.4.0-bin\apache-uima-as-2.4.0\apache-activemq-5.4.1/conf; -Dactivemq.home=F:\uima-as-2.4.0-bin\apache-uima-as-2.4.0\apache-activemq-5.4.1 -Dactivemq.base=amq
ACTIVEMQ_HOME: F:\uima-as-2.4.0-bin\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 BrokerService - Using Persistence Adapter: MemoryPersistenceAdapter
INFO BrokerService - ActiveMQ 5.4.1 JMS Message Broker (localhost) is starting
INFO BrokerService - For help or more information please see:
http://activemq.apache.org/
INFO ManagementContext - JMX consoles can connect to service:jmx:rmi:///jndi/rmi://localhost:1099/jmxrmi
INFO TransportServerThreadSupport - Listening for connections at: tcp://sy-PC:61616
INFO TransportConnector - Connector openwire Started
INFO BrokerService - ActiveMQ JMS Message Broker (localhost, ID:sy-PC-1319-1381344439164-0:0) started
  
```

3. Create a client descriptor



4. Create a CPE descriptor to test service by calling the client.



5. Output after calling a local service

Question: Q Booth shot Lincoln?

- + 1.00 Booth shot Lincoln.
- 0.50 Lincoln shot Booth.
- + 0.33 Booth assassinated Lincoln.
- 0.33 Lincoln assassinated Booth.
- + 0.25 Lincoln was shot by Booth.
- 0.25 Booth was shot by Lincoln.
- + 0.17 Lincoln was assassinated by Booth.
- 0.17 Booth was assassinated by Lincoln.

Precision at 4: 0.50

Question: Q Booth shot Lincoln?

- + 1.00 Booth shot Lincoln.
- 0.50 Lincoln shot Booth.
- + 0.33 Booth assassinated Lincoln.
- 0.33 Lincoln assassinated Booth.
- + 0.25 Lincoln was shot by Booth.|
- 0.25 Booth was shot by Lincoln.
- + 0.17 Lincoln was assassinated by Booth.
- 0.17 Booth was assassinated by Lincoln.

Precision at 4: 0.50

Question: Q John loves Mary?

- + 1.00 John loves Mary.
- + 0.33 John loves Mary with all his heart.
- 0.22 John doesn't love Mary.
- 0.22 Mary doesn't love John.
- + 0.13 Mary is dearly loved by John.

Precision at 3: 0.67

Question: Q John loves Mary?

- + 1.00 John loves Mary.
- + 0.33 John loves Mary with all his heart.
- 0.22 John doesn't love Mary.
- 0.22 Mary doesn't love John.
- + 0.13 Mary is dearly loved by John.

Precision at 3: 0.67