

Exercise Objectives

In this exercise, you will:

- Use the Continuuity Reactor maven archetype
- Build a Continuuity Reactor Application
- Deploy and run the application
- Start an application used for the remaining examples

Exercise Steps: Create the Project

- In a command-line window, create a new, empty directory
- Run the maven archetype command:

\$ mvn archetype:generate \

- -DarchetypeCatalog=http://tinyurl.com/ndoa5l2 \
- -DarchetypeGroupId=com.continuuity \
- -DarchetypeArtifactId=reactor-app-archetype \
- -DarchetypeVersion=2.2.0
- For groupId use com.example
- For artifactId (the project name) use SentimentAnalysis

Exercise Steps: Build and Deploy

• Build the resulting project

\$ cd SentimentAnalysis
\$ mvn clean package

- Deploy the resulting application to a Reactor
- Open the maven project in IntelliJ by opening the pom.xml file from within IntelliJ [Extra credit!]

Exercise Steps: Sentiment Analysis

- The SentimentAnalysis project will be used to create a complete Reactor application
- A copy of the completed application is included in the Continuuity Reactor SDK's /examples/SentimentAnalysis directory
- The completed application performs sentiment analysis of sentences using an external Python natural language toolkit
- The application will be called SentimentAnalysisApp

In the pox.xml change the app.main.class from WordCountApp to SentimentAnalysisApp:

<app.main.class>com.example.SentimentAnalysisApp</app.main.class>

Change the name of the source file WordCountApp.java to SentimentAnalysisApp.java Change the class inside from WordCountApp to SentimentAnalysisApp

Exercise Steps: ApplicationSpecification

Replace the existing ApplicationSpecification with:

```
public ApplicationSpecification configure() {
   return ApplicationSpecification.Builder.with()
   .setName("SentimentAnalysisApp")
   .setDescription("Application for Sentiment Analysis")
   .withStreams()
    .add(new Stream("sentence"))
   .noDataSet()
   .withFlows()
   .add(new SentimentAnalysisFlow())
   .noProcedure()
   .noMapReduce()
   .noWorkflow()
   .build();
}
```

Exercise Steps: ApplicationSpecification

Change its javadoc comment to read:

Application that analyzes sentiment of sentences as positive, negative or neutral.

Inside SentimentAnalysisApp, change the LOG variable to set the log as the SentimentAnalysisApp.class rather than WordCount.class

Remove all other classes in the SentimentAnalysisApp

Exercise Steps: Changing the Test File

Change the name of the source file WordCountTest.java to SentimentAnalysisTest.java

Change the class inside from WordCountTest to SentimentAnalysisTest

Comment out the contents of the try block of the test so the tests build and runs but does nothing; a later exercise will add tests

Exercise Summary

You should now be able to:

- Use the Continuuity Reactor maven archetype
- Create a simple Continuuity Reactor Application
- Deploy it in Reactor
- Open it in an IDE such as IntelliJ
- Modify a template for a new project

Exercise Completed

Chapter Index