

Work Group Examples

Outline

When implementing batches, you need to categorizes a series of jobs into the proper unit as they become necessary.

Description

Settings

Configuring Jobs

In the Workgroup Example, you may use `delegatingJob` used in other examples.

Refer to the following for chunk configuration in Job composition:

```
<job id="delegateJob" xmlns="http://www.springframework.org/schema/batch">
    <step id="delegateStep1">
        <tasklet>
            <chunk reader="reader" writer="writer" commit-interval="3"/>
        </tasklet>
    </step>
</job>
```

Coniguring Launcher

Check out `group-job-launcher-context`, the launcher configuration file for work group example.

✓ To use the Job Group Function you need to add the group entitled 'groupName' for the Bean related to the Class `JobRegistryBeanPostProcessor`.

```
<bean id="jobLauncher"
    class="org.springframework.batch.core.launch.support.SimpleJobLauncher">
    <property name="jobRepository" ref="jobRepository" />
</bean>

<bean
class="org.springframework.batch.core.configuration.support.JobRegistryBeanPostProcessor
">
    <property name="jobRegistry" ref="jobRegistry"/>
    <property name="groupName" value="testJobGroup"/>
</bean>
```

```

<bean id="jobRepository"
class="org.springframework.batch.core.repository.support.JobRepositoryFactoryBean"
    p:dataSource-ref="dataSource" p:transactionManager-ref="transactionManager"
p:lobHandler-ref="lobHandler"/>

<bean id="lobHandler" class="org.springframework.jdbc.support.lob.DefaultLobHandler"/>

<bean id="mapJobRepository"
class="org.springframework.batch.core.repository.support.MapJobRepositoryFactoryBean"
    lazy-init="true" autowire-candidate="false" />

<bean id="jobOperator"
class="org.springframework.batch.core.launch.support.SimpleJobOperator"
    p:jobLauncher-ref="jobLauncher" p:jobExplorer-ref="jobExplorer"
    p:jobRepository-ref="jobRepository" p:jobRegistry-ref="jobRegistry" />

<bean id="jobExplorer"
class="org.springframework.batch.core.explore.support.JobExplorerFactoryBean"
    p:dataSource-ref="dataSource" />

<bean id="jobRegistry"
    class="org.springframework.batch.core.configuration.support.MapJobRegistry" />

```

Composition and Implementation of JunitTest

Composition of JunitTest

Work Junit Test using the delegatingJob and group-job-launcher-context configurations, where batch implementation is involved.

- ✓ See [Junit Test](#) for runtime environment of batches for more information.
- ✓ assertEquals("[testJobGroup.delegateJob]", jobRegistry.getJobNames().toString()) : Check out the Job is saved in the title [Group.Job].

```
@ContextConfiguration(locations = { "/egovframework/batch/group-job-launcher-
context.xml",
```

```
        "/egovframework/batch/jobs/delegatingJob.xml",
        "/egovframework/batch/job-runner-context.xml" })
```

```
public class EgovJobGroupDelegatingJobFunctionalTests {
```

```
    ...
```

```
    @Test
```

```
    public void testLaunchJob() throws Exception {
```

```
        jobLauncherTestUtils.launchJob();
```

```
        assertTrue(personService.getReturnedCount() > 0);
```

```
        assertEquals(personService.getReturnedCount(),
```

```
personService.getReceivedCount());
```

```
        assertEquals("[testJobGroup.delegateJob]", jobRegistry.getJobNames().toString());
```

```
    }
```

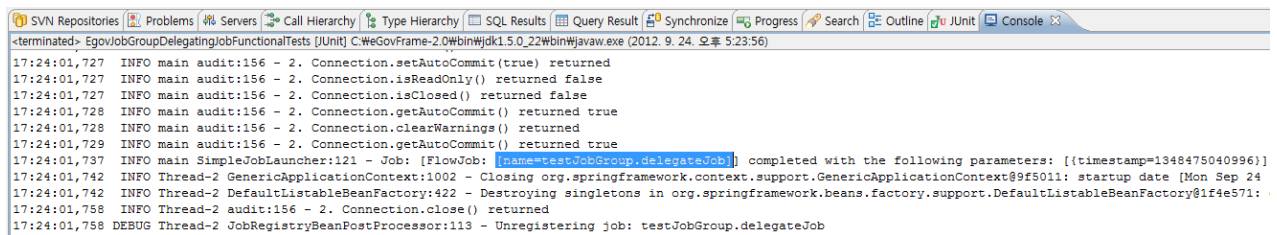
```
}
```

Implementation of JunitTest

See [Implementation of JunitTest](#) for more information.

Verify Result

Check out the log in the console to see the groupName(testJobGroup) assigned in the launcher configuration are used as the title of categories.



```
<terminated> EgovJobGroupDelegatingJobFunctionalTests [JUnit] C:\WeGovFrame-2.0\bin\jdk1.5.0_22\bin\javaw.exe (2012. 9. 24. 오후 5:23:56)
17:24:01,727 INFO main audit:156 - 2. Connection.setAutoCommit(true) returned
17:24:01,727 INFO main audit:156 - 2. Connection.isReadOnly() returned false
17:24:01,727 INFO main audit:156 - 2. Connection.isClosed() returned false
17:24:01,728 INFO main audit:156 - 2. Connection.setAutoCommit() returned true
17:24:01,728 INFO main audit:156 - 2. Connection.clearWarnings() returned
17:24:01,729 INFO main audit:156 - 2. Connection.setAutoCommit() returned true
17:24:01,737 INFO main SimpleJobLauncher:121 - Job: [FlowJob: [name=testJobGroup.delegateJob]] completed with the following parameters: [{timestamp=1348475040996}]
17:24:01,742 INFO Thread-2 GenericApplicationContext:1002 - Closing org.springframework.context.support.GenericApplicationContext@9f5011: startup date [Mon Sep 24
17:24:01,742 INFO Thread-2 DefaultListableBeanFactory:422 - Destroying singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@1f4e571:
17:24:01,758 INFO Thread-2 audit:156 - 2. Connection.close() returned
17:24:01,758 DEBUG Thread-2 JobRegistryBeanPostProcessor:113 - Unregistering job: testJobGroup.delegateJob
```

References

- [JobRegistry](#)