

Restart Example

Outline

In this Section you can refer to how a Job is restarted as an example.

Description

Settings

Configuring Jobs

Check out `restartFileSampleJob.xml`, the job configuration file for the Restart example.

You may define restartability of a job as you want when configuring the concerned job, with the default value being “true”, as follows:

Restartable

```
<job id="restartFileSampleJob" xmlns="http://www.springframework.org/schema/batch">
    <step id="restartFileSampleStep1">
        <tasklet>
            <chunk reader="itemReader" processor="itemProcessor"
writer="itemWriter"
                commit-interval="5"/>
        </tasklet>
    </step>
</job>
```

Non-restartable

```
<job id="restartFileSampleJob" restartable="false"
xmlns="http://www.springframework.org/schema/batch">
    <step id="restartFileSampleStep1">
        <tasklet>
            <chunk reader="itemReader" processor="itemProcessor"
writer="itemWriter"
                commit-interval="5"/>
        </tasklet>
    </step>
</job>
```

Composition and Implementation of JunitTest

Composition of JunitTest

Implement the Restart example and verify the result of batch by comprising @Test as follows:

- ✓ See [Junit Test Description for Batch Execution](#) for more information.
- ✓ CustomerCreditFlatFileItemWriter : Throws “Failed” upon implementation of batches.
- ✓ assertEquals(BatchStatus.FAILED, je1.getStatus()); : Check if the initial execution of batch throws FAILED.
- ✓ assertEquals(BatchStatus.COMPLETED, je2.getStatus()); : Check if the restart of batch throws COMPLETED.

@RunWith(SpringJUnit4ClassRunner.class)

```

@ContextConfiguration(locations = { "/egovframework/batch/simple-job-launcher-context.xml",
"/egovframework/batch/jobs/restartFileSampleJob.xml",
"/egovframework/batch/job-runner-context.xml" })
public class EgovRestartFileSampleFunctionalTests {

    // outputResource of batches
    @Autowired
    private Resource outputResource;

    // JobLauncherTestUtils to test the batches.
    @Autowired
    private JobLauncherTestUtils jobLauncherTestUtils;

    /**
     * Batch Testing
     */
    @Test
    public void runTest() throws Exception {
        JobParameters jobParameters = jobLauncherTestUtils.getUniqueJobParameters();

        JobExecution je1 = jobLauncherTestUtils.launchJob(jobParameters);
        assertEquals(BatchStatus.FAILED, je1.getStatus());
        AssertFile.assertLineCount(10, outputResource);

        JobExecution je2 = jobLauncherTestUtils.launchJob(jobParameters);
        assertEquals(BatchStatus.COMPLETED, je2.getStatus());
        AssertFile.assertLineCount(20, outputResource);
    }
    /**
     * Class Writer that throws failed in the middle of job for testing of Restart
     * @author Team "Batch Execution and Development"
     * @since 2012. 06.27
     * @version 1.0
     * @see
     */
    public static class CustomerCreditFlatFileItemWriter extends FlatFileItemWriter<CustomerCredit> {

        // Flag to throw "failed"
        private boolean failed = false;

        /**
         * Write
         */
        @Override
        public void write(List<? extends CustomerCredit> arg0) throws Exception {
            for (CustomerCredit cc : arg0) {
                if (!failed && cc.getName().equals("customer13")) {
                    failed = true;
                    throw new RuntimeException();
                }
            }
            super.write(arg0);
        }
    }
}
}

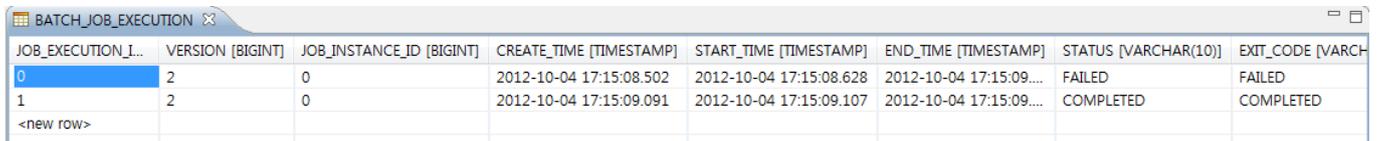
```

Implementation of JunitTest

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

Verification of Result

Make sure the failed Job is restarted and COMPLETED, as you can referred to in JobExecution.



JOB_EXECUTION_L...	VERSION [BIGINT]	JOB_INSTANCE_ID [BIGINT]	CREATE_TIME [TIMESTAMP]	START_TIME [TIMESTAMP]	END_TIME [TIMESTAMP]	STATUS [VARCHAR(10)]	EXIT_CODE [VARCH...
0	2	0	2012-10-04 17:15:08.502	2012-10-04 17:15:08.628	2012-10-04 17:15:09....	FAILED	FAILED
1	2	0	2012-10-04 17:15:09.091	2012-10-04 17:15:09.107	2012-10-04 17:15:09....	COMPLETED	COMPLETED
<new row>							

References

- [Configurations for Restart Step](#)