

 無料電子ブック

学習

spring-batch

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#spring-
batch

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1: スプリングバッチのい

このセクションでは、Springバッチのとがなぜそれをしたのかをします。

また、バネバッチのきなテーマについてもし、するトピックにリンクしてください。spring-batchのドキュメンテーションはしいので、これらのトピックのバージョンをするがあります。

バージョン

バージョン	
3.0.x	2016-04-22
2.2.x	2014-05-22
2.1.x	2012-08-20
2.0.x	2009-10-19
1.1.x	2009-01-29
1.0.x	200856

Examples

MavenとJavaのをしたセットアップ

- [Maven](#)をインストールしてください。
- IntelliJ、Eclipse、NetBeansなどのIDEをインストールしてください。

Mavenプロジェクトをする

プロジェクトつまり、グループIDをcom.organization.app、Artifact IDをSpringBatchExampleとして、Mavenプロジェクトをします。

```
SpringBatchExample
|-- pom.xml
`-- src
    |-- main
    |   |-- java
    |       |-- com
    |           |-- organization
    |               |-- app
```

```
| `-- resources
|-- test
  |-- java
    |-- com
      |-- organization
        |-- app
```

Spring バッチ Hello World プログラムの

Spring バッチ ジョブには Spring のがです。ここでは、Java がされます。

pom.xml をする

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
    http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.organization.app</groupId>
  <artifactId>SpringBatchExample</artifactId>
  <version>1.0-SNAPSHOT</version>

  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.1</version>
        <configuration>
          <source>1.8</source>
          <target>1.8</target>
        </configuration>
      </plugin>
    </plugins>
  </build>

  <dependencies>
    <dependency>
      <groupId>org.springframework.batch</groupId>
      <artifactId>spring-batch-core</artifactId>
      <version>3.0.7.RELEASE</version>
    </dependency>
    <dependency>
      <groupId>commons-logging</groupId>
      <artifactId>commons-logging</artifactId>
      <version>1.1.1</version>
    </dependency>
  </dependencies>
</project>
```

src/main/java/com/organization/app パッケージのに、SpringBatchHelloWorldConfig.java し
SpringBatchHelloWorldConfig.java。この Spring バッチ プログラムは、フラットファイルから
Employee のリストをみみ、をにし、Employee をすべてします。

```

@Configuration
@EnableBatchProcessing
public class SpringBatchHelloWorldConfig {

    @Autowired
    private JobBuilderFactory jobBuilderFactory;

    @Autowired
    private StepBuilderFactory stepBuilderFactory;

    @Bean
    public Step step1() {
        return stepBuilderFactory.get("step1")
            .<Employee, Employee>chunk(2)
            .reader(employeeItemReader())
            .processor(employeeItemProcessor())
            .writer(employeeItemWriter())
            .build();
    }

    @Bean
    public Job listEmployeesJob(Step step1) throws Exception {
        return jobBuilderFactory.get("listEmployeesJob")
            .start(step1)
            .build();
    }

    @Bean
    ItemReader<Employee> employeeItemReader() {

        FlatFileItemReader<Employee> reader = new FlatFileItemReader<>();
        reader.setResource(new ClassPathResource("employees.csv"));

        DefaultLineMapper defaultLineMapper = new DefaultLineMapper();
        DelimitedLineTokenizer delimitedLineTokenizer = new DelimitedLineTokenizer();
        delimitedLineTokenizer.setNames(new String[] {"firstName", "lastName", "age",
"salary"});

        BeanWrapperFieldSetMapper<Employee> fieldSetMapper = new
BeanWrapperFieldSetMapper<>();
        fieldSetMapper.setTargetType(Employee.class);

        defaultLineMapper.setLineTokenizer(delimitedLineTokenizer);
        defaultLineMapper.setFieldSetMapper(fieldSetMapper);
        reader.setLineMapper(defaultLineMapper);

        return reader;
    }

    @Bean
    ItemProcessor<Employee, Employee> employeeItemProcessor() {
        return new ItemProcessor<Employee, Employee>() {
            @Override
            public Employee process(Employee employee) throws Exception {
                employee.setFirstName(employee.getFirstName().toUpperCase());
                employee.setLastName(employee.getLastName().toUpperCase());
                return employee;
            }
        };
    }
}

```

```

@Bean
ItemWriter<Employee> employeeItemWriter() {
    return new ItemWriter<Employee>() {
        @Override
        public void write(List<? extends Employee> employeesList) throws Exception {
            for (Employee employee : employeesList) {
                System.out.println("Name: "
                    + employee.getFirstName() + " "
                    + employee.getLastName() + "; "
                    + "Age: " + employee.getAge() + "; "
                    + "Salary: " + employee.getSalary());
            }
        }
    };
}
}

```

Employee.java

```

public class Employee {
    private String firstName;
    private String lastName;
    private int age;
    private int salary;

    public String getFirstName() {
        return firstName;
    }

    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }

    public String getLastName() {
        return lastName;
    }

    public void setLastName(String lastName) {
        this.lastName = lastName;
    }

    public int getAge() {
        return age;
    }

    public void setAge(int age) {
        this.age = age;
    }

    public int getSalary() {
        return salary;
    }

    public void setSalary(int salary) {
        this.salary = salary;
    }
}

```

resourcesにemployees.csvします。

```
John,Doe,35,90000
Sue,Smith,45,95000
Joe,Brown,33,86000
Carol,Dunn,25,75000
Mike,Ward,23,70000
Lisa,Jones,22,69000
```

src/main/java/com/organization/appパッケージのに、メインクラスをします。

Main.java

```
public class Main {
    public static void main(String[] args) {

        ApplicationContext context = new
AnnotationConfigApplicationContext(SpringBatchHelloWorldConfig.class);

        JobLauncher jobLauncher = context.getBean(JobLauncher.class);
        Job job = context.getBean("listEmployeesJob", Job.class);

        JobParameters jobParameters = new JobParametersBuilder().toJobParameters();

        try {
            JobExecution jobExecution = jobLauncher.run(job, jobParameters);
        }
        catch (JobExecutionAlreadyRunningException e) {
            e.printStackTrace();
        }
        catch (JobRestartException e) {
            e.printStackTrace();
        }
        catch (JobInstanceAlreadyCompleteException e) {
            e.printStackTrace();
        }
        catch (JobParametersInvalidException e) {
            e.printStackTrace();
        }
    }
}
```

オンラインでスプリングバッチのいをむ <https://riptutorial.com/ja/spring-batch/topic/4089/スプリングバッチのい>

クレジット

S. No		Contributors
1	スプリングバッチの い	badjr , Community