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Java Configuration with Spring Batch

In [the first post in this series](#), I introduced Spring's Java configuration mechanism. There is the base configuration style, and - as we saw - there are annotations (like `@EnableWebMvc`) that turn on container-wide, and often conventions-oriented features. In the case of `@EnableWebMvc`, the annotation enables Spring MVC and turns on support for correctly exposing `@Controller`-annotated beans as HTTP endpoints. Java configuration APIs of the same style as `@EnableWebMvc` can often optionally implement interfaces that are used to contribute, change, or otherwise tailor the API. Most Spring projects today offer beta-or-better APIs that work in this same manner. In this post, we'll look at **Spring Batch's Java Configuration API** available in the upcoming 2.2 release.

Spring Batch provides a solution for batch processing. It lets you describe jobs, which themselves have steps, which read input from some source system (a large RDBMS dataset, a large CSV file or XML document, etc.), optionally process the input, and then write the output to a destination system like an RDBMS, a file, or a message queue.

```
@Configuration
@EnableBatchProcessing
public class BatchInfrastructureConfiguration {

    @Bean
    public TaskScheduler taskScheduler() {
        return new ConcurrentTaskScheduler();
    }

    @Bean
    public PlatformTransactionManager transactionManager(
        DataSource ds) {
        return new DataSourceTransactionManager(ds);
    }

    @Bean
    public DataSource dataSource(Environment environment)
    {

        String pw = environment.getProperty("dataSource.p
assword"),
                user = environment.getProperty("dataSourc
e.user"),
                url = environment.getProperty("dataSource
.url");
```

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```

        Class classOfDs = environment.getPropertyAsClass(
            "dataSource.driverClassName", Driver.class);

        SimpleDriverDataSource dataSource = new SimpleDriverDataSource();
        dataSource.setPassword(pw);
        dataSource.setUrl(url);
        dataSource.setUsername(user);
        dataSource.setDriverClass(classOfDs);

        return dataSource;
    }
}

```

Once you've done this, you can start describing jobs using the Spring Batch configuration DSL. Here, we define a job named

`flickrImportJob` which in turn has one step, `step1`, that in turn reads data using an `ItemReader` named `photoAlbumItemReader` and writes data using an `ItemWriter` named `photoAlbumItemWriter`.

```

@Configuration
@Scope(proxyMode = ScopedProxyMode.TARGET_CLASS)
@Import(BatchInfrastructureConfiguration.class)
public class BatchImporterConfiguration {

    @Bean(name = "flickrImportJob")
    public Job flickrImportJob(
        JobBuilderFactory jobs,
        @Qualifier("step1") Step s1
    ) {
        return jobs.get("flickrImportJob")
            .flow(s1)
            .end()
            .build();
    }

    @Bean(name = "step1")
    public Step step1(StepBuilderFactory stepBuilderFactory,
        @Qualifier("photoAlbumItemReader")
        ItemReader ir,
        @Qualifier("photoAlbumItemWriter")
        ItemWriter iw
    ) {
        return stepBuilderFactory.get("step1")
            .chunk(10)
            .reader(ir)
            .writer(iw)
            .build();
    }

    // ... omitting definitions of ItemReader and ItemWriter
}

```

```
ters  
}
```

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