



LAB- Spring Batch – Reading FIXED Format File – Java Configuration

In this lab you will be understand how to read Fixed Format file using FlatFileItemReader with Java Configuration

In this lab, you will be working on **02-ReadingFlatFileFixedLength-JavaConfig-start** project
Make sure , you have created **batchdb** in mysql database

- 1) Open BatchConfig.java (com.way2learnonline package)
- 2) @EnableBatchProcessing creates Job repository and JobLauncher automatically
- 3) Note that JobBuilderFactory and StepBuilderFactory are autowired
@Autowired
private JobBuilderFactory jobBuilderFactory;

@Autowired
private StepBuilderFactory stepBuilderFactory;
- 4) JOB : There is a method defined for creating Job : it creates the job , specifies the step to be called
- 5) STEP : There is a method defined for creating step , it specifies the chunk size , reader and writer
- 6) ItemReader : Notice that a method is defined : `productFileReader` with return type as `FlatFileItemReader<Product>`
- 7) This method has @StepScope so that parameters are available at the step execution time
- 8) `FlatFileItemReader` object is created and resource is set with the inputResource that is passed as method parameter
- 9) **Todo 1** : Create an Object of `FixedLengthTokenizer`
- 10) Set the Properties for FixedLengthTokenizer
- 11) Property1 : **Names** i.e. "ID", "NAME", "DESCRIPTION", "PRICE"
- 12) Property2 : **Columns** i.e. Range of these columns : (new Range[]{new Range(1,9),new Range(10,35),new Range(36,50),new Range(51,56)})
- 13) **Todo 2** : Create an Object of `ProductFieldSetMapper`



14) Custom mapper , its in package `com.way2learnonline.batch.support` – have a look

15) **Todo 3** : Create an Object of `DefaultLineMapper<Product>`

16) And Set the properties i.e. `FieldSetMapper` and `LineTokenizer`

17) **Todo 4** : Set the `DefaultLineMapper` as a property to `FlatFileItemReader` i.e.
`reader.setLineMapper`

18) This method returns reader

19) This completes your reader configuration

20) Notice writer configuration is already done : `ProductJdbcItemWriter`

`@Bean`

`public ItemWriter productJdbcItemWriter()`

`{`

`return new ProductJdbcItemWriter();`

`}`

This is a simple writer that inserts data in Product table

21) Go to `src/test/java` and Run **BatchTest.java**

22) It will read data from File and insert in product table

Congratulations!! You have completed the Lab successfully!!