Consuming an Input File



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Input File Structure



Comma delimited fields

Header row

File considerations



PatientRecord Class

```
public class PatientRecord implements Serializable {
    private String sourceId;
    private String firstName;
    private String middleInitial;
    private String lastName;
    private String emailAddress;
    private String phoneNumber;
    private String street;
    private String city;
    private String state;
    private String zip;
    private String birthDate;
    private String action;
    private String ssn;
```



Demo 9 - Input file domain object creation



```
@Bean
public Step step(ItemReader<PatientRecord> itemReader)
    throws Exception {
    return this.stepBuilderFactory
        .get(Constants.STEP_NAME)
        .<PatientRecord, PatientRecord>chunk(2)
        .reader(itemReader)
        .processor(processor())
        .writer(writer())
        .build();
}
```





Demo 10 - Update the job step for chunkoriented processing



FlatFile ItemReader Builder Name

Resource

Lines to skip

Line mapper









Demo 11 - Implementing a flat file item reader



```
@Bean
@StepScope
public PassThroughItemProcessor<PatientRecord> processor() {
    return new PassThroughItemProcessor<>();
}
```







Demo 12 - Implementing the stub processor and writer



Class in the test folder under the package com.pluralsight.springbatch.patientbatchloader.config



BatchJobConfigurationTest

```
@Test
public void testReader() throws Exception {
     StepExecution stepExecution = MetaDataInstanceFactory.createStepExecution(jobParameters);
     int count = 0:
     try {
           count = StepScopeTestUtils.doInStepScope(stepExecution, () -> {
                int numPatients = 0;
                PatientRecord patient;
                try {
                      reader.open(stepExecution.getExecutionContext());
                      while ((patient = reader.read()) != null) {
                            // ASSERTIONS
                 } finally {
                      try { reader.close(); } catch (Exception e) { fail(e.toString()); }
                return numPatients;
           });
       catch (Exception e) {
           fail(e.toString());
     assertEquals(1, count);
```



Demo 13 - Testing the item reader





Demo 14 - Executing the job with the item reader



Summary



Updated the step for chunking
Implemented a FlatFileItemReader
Stubbed the item processor and writer
Tested the item reader

