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Big Data System Engineering with Scala Spring 2023 Assignment No. 3



- List of Tasks Implemented

- There are three implementations to create in Movie.scala (lines 101, 124, 204). This time it is OK to edit the Spec file (but after this assignment, you should not edit any Spec files). But I want to give you some familiarity with Spec files (i.e. ScalaTest with Matchers). The most useful documentation for this sort of thing is here: http://www.scalatest.org/user_guide/using_matchers.
- The purpose of this code is to read the movie database file into Movie instances.
- The module name for this assignment is assignment-movie-database. Let me clarify a little: you only need to work with Ingest.scala, Movie.scala and IngestSpec.scala, in addition, MovieSpec.scala is available for you to verify your implementation. These are all in the asstmd package (the spec file is under test of course). You will also need movie_metadata.csv which is under test/resources of the project (use this version).

- Code

Movie.Scala

```
implicit object ParsableMovie extends Parsable[Movie] {
    /**
    * Method to yield a Try[Movie] from a String representing a line of input of the movie database file.
    *
    * TODO 11 points.
    *
    * @param w a line of input.
    * @return a Try[Movie]
    */
    def parse(w: String): Try[Movie] = Try(Movie(w.split(",")))
}
```

IngestSpec.scala

```
it should "work for Int" in {
    trait ParsableInt$ extends Parsable[Int] {
        def parse(w: String): Try[Int] = Try(w.toInt)
        }
        implicit object ParsableInt$ extends ParsableInt$
        val source = Source.fromChars(Array('x', '\n', '4', '2'))
        val ingester = new Ingest[Int]()
        val xys = ingester(source).toSeq
        // check that xys has exactly one element, consisting of Success(42) -- 10 points
        xys.length shouldBe 1
        xys(0) shouldBe Success(42)
}
```

- Unit tests

MovieSpec.scala

```
| Commonweight | Comm
```

IngestSpec.scala

