Bowen Jiang (NUID: 001582174)

CSYE 7200

Big-Data Sys Engr Using Scala

Sprint 2021

Assignment 3

Task:

As mentioned in class 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).

Function Implement

The function I implement:

Movie.scala

```
/**

* 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(",").toSeq)) // TO BE IMPLEMENTED

}
```

```
def elements(list: Seq[String], indices: Int*): List[String] = {
     // Hint: form a new list which is consisted by the elements in list in position indices. Int* means array of Int.
     // 6 points
     val result: Seq[String] =
     // TO BE IMPLEMENTED
     for(index <- indices) yield list(index)</pre>
     result.toList
 def apply(s: String): Rating =
   s match {
     case rRating(code, _, null) => Rating(code, None)
     case rRating(code, _, age) => Rating(code, Some(age.toInt))
     case _ => throw ParseException(s"parse error in Rating: $s")
IngestSpec.scala
    val xys = ingester(source).toSeq
    // check that xys has exactly one element, consisting of Success(42) -- 10 points
    // TO BE IMPLEMENTED
    xys.length shouldBe 1
    xys(0) shouldBe Success(42)
```

Unit Test Screenshot

