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



GitHub - https://github.com/anirudhajoshi2808/Anirudha Joshi CSYE7200

- Tasks:

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).

You don't need to create a new project, just clone/download class repo, and import assignment-movie-database, you may follow the video demo under Canvas / Assignments / Video Demo for Assignment Import and Submit. Remember the to follow the Canvas / Assignments / Standard procedure for submitting assignments.

You will have to do some real programming to create these implementations and you may feel that you aren't quite ready for it. But, the compiler is your friend. The REPL is your friend. You can do it! And the principle of Simple, Obvious, Elegant is your friend too (I particularly commend my blog article Links to an external site. on this).

- Code: Movie.scala

Line 101

def parse(w: String): Try[Movie] = Try(Movie(w.split(",")))

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Line 124:

val result: Seq[String] =
for(index <- indices) yield list(index)
result.toList</pre>

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Line 204:

def apply(s: String): Rating = (for (ws <- rRating.unapplySeq(s)) yield for (w <- ws) yield Option(w)) match {

case Some(Seq(Some(code), _, age)) => Rating(code, age.flatMap(_.toIntOption))
case x => throw ParseException(s"parse error in Rating: \$s, (parsed as \$x)")

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IngestSpec.scala:

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- Unit tests

