# Shangqing Hu – SEC01 (NUID 001374342)

# Big Data System Engineering with Scala Spring 2023 Assignment 3(Movie database)



### -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

#### Code in Movie.scala

```
def parse(w: String): Try[Movie] = Try(
   Movie(w.split(regex = ",").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
    // 6 points
    val result: Seq[String] = for(index <- indices) yield list(index)
    result.toList</pre>
```

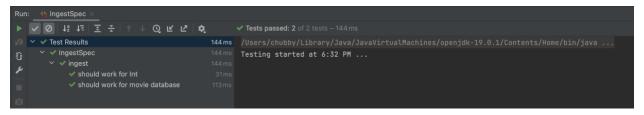
```
def apply(s: String): Rating = s match{
  case rRating(code, _, null) => Rating(code, None)
  case rRating(code, _, age) => Rating(code, Some(age.toInt))
  case _ => throw ParseException(s"parse error in Rating")
} // TO BE IMPLEMENTED
```

## Code in IngestSpec.scala

```
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
// TO BE IMPLEMENTED
xys.length shouldBe 1
xys(0) shouldBe Success(42)
```

#### -Unit tests

# IngestSpec.scala



# MovieSpec.scala



GitHub URL:https://github.com/ShangqingHu/CSYE7200.git