

Olasunkanmi Olayinka – SEC01 (NUID 001512266)

Big Data System Engineering with Scala

Spring 2022

Assignment No. 3



-List of Tasks Implemented

- Implement Movie.scala
- Implement IngestSpec.scala

-Code

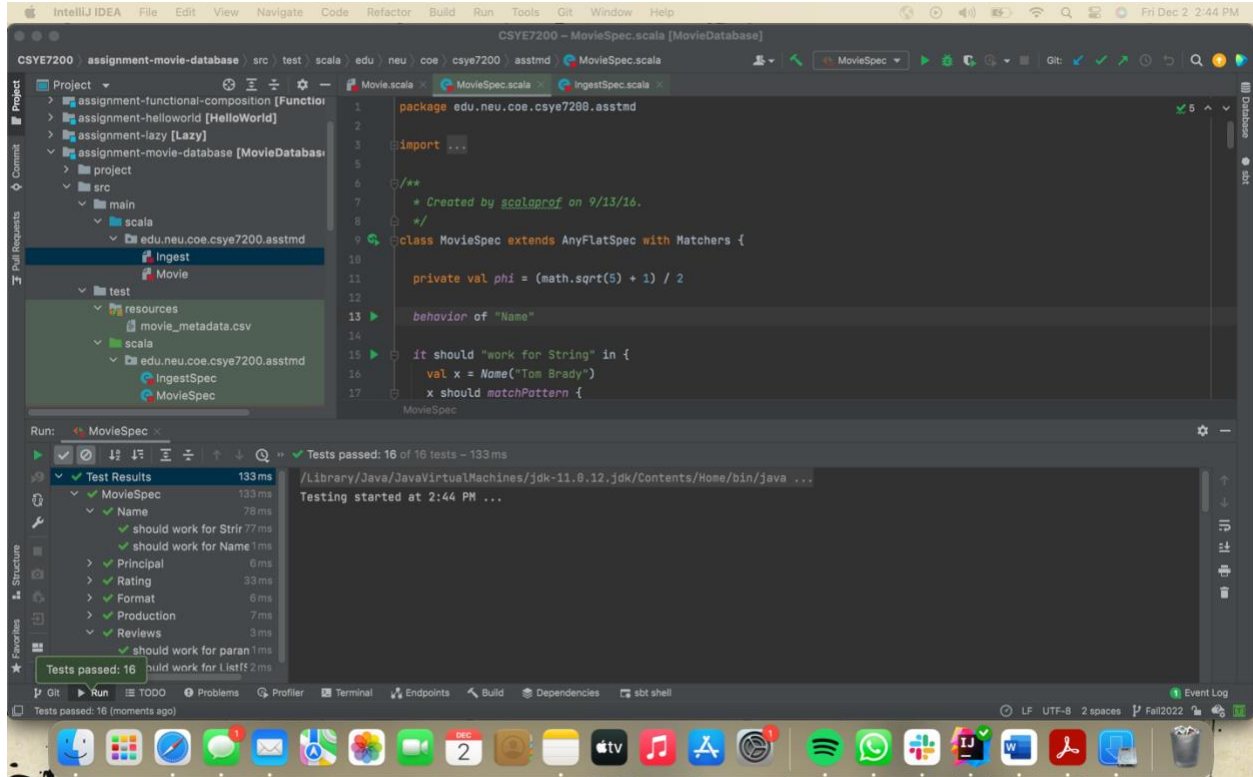
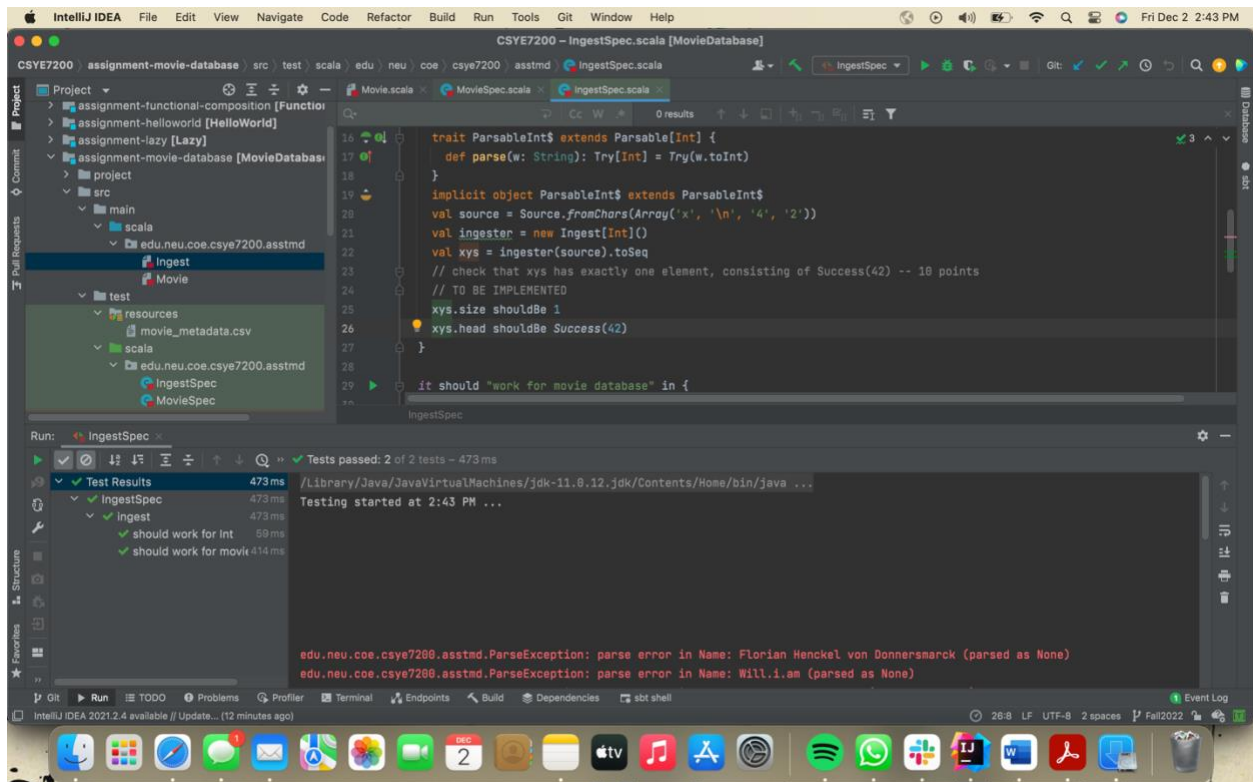
```
92 implicit object ParsableMovie extends Parsable[Movie] {
93   /**
94    * Method to yield a Try[Movie] from a String representing a line of input of the movie database file.
95    *
96    * TODO 11 points.
97    *
98    * @param w a line of input.
99    * @return a Try[Movie]
100   */
101   def parse(w: String): Try[Movie] = Try(apply(w.split(regex = ",").toSeq)) // TO BE IMPLEMENTED
102 }
103
```

```
119 def elements(list: Seq[String], indices: Int*): List[String] = {
120   // Hint: form a new list which is consisted by the elements in list in position indices. Int* means array of Int.
121   // 6 points
122   val result: Seq[String] =
123     // TO BE IMPLEMENTED
124     for (x <- indices) yield list(x)
125     result.toList
126 }
127
```

```
202 // Hint: This should similar to apply method in Object Name. The parameter of apply in case match should be same as case
203 // 13 points
204 def apply(s: String): Rating = (for (ws <- rRating.unapplySeq(s)) yield for (w <- ws) yield Option(w))
205 match {
206   case Some(Seq(Some(code), _, age)) => Rating(code, age.flatMap(_._toIntOption))
207   case x => throw ParseException(s"parse error in Rating: $s (parsed as $x)")
208 } // TO BE IMPLEMENTED
209 }
210
```

```
15 it should "work for Int" in {
16   trait ParsableInt$ extends Parsable[Int] {
17     def parse(w: String): Try[Int] = Try(w.toInt)
18   }
19   implicit object ParsableInt$ extends ParsableInt$
20   val source = Source.fromChars(Array('x', '\n', '4', '2'))
21   val ingester = new Ingest[Int]()
22   val xys = ingester(source).toSeq
23   // check that xys has exactly one element, consisting of Success(42) -- 10 points
24   // TO BE IMPLEMENTED
25   xys.size shouldBe 1
26   xys.head shouldBe Success(42)
27 }
```

-Unit tests



- Result

Everything works as expected, i.e testing for exactly one element, parsing csv file, and apply method for Rating when a single string argument is given.