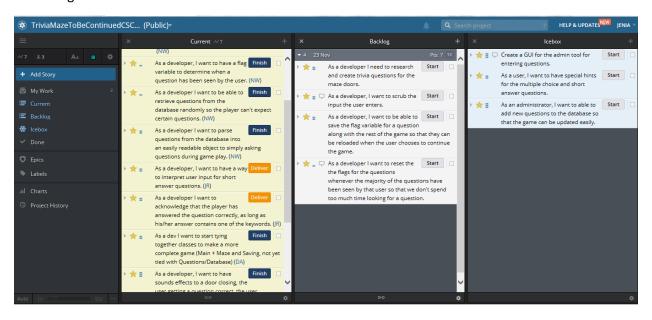
## **CSCD 350 Software Engineering**

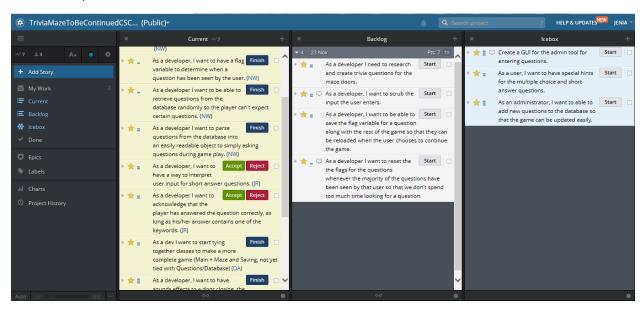
# End of 3<sup>rd</sup> Iteration

Jenia's work for Iteration 3:

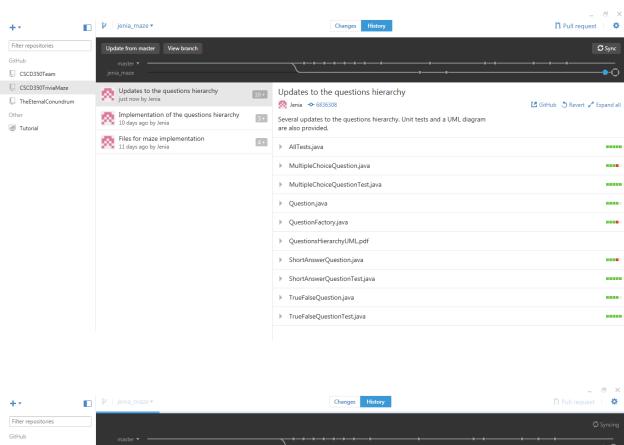
Delivering user stories:

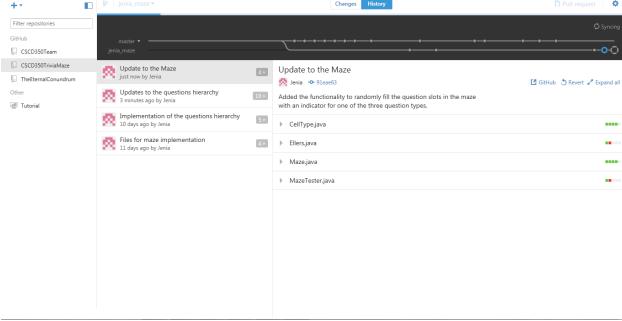


#### Stories accepted:

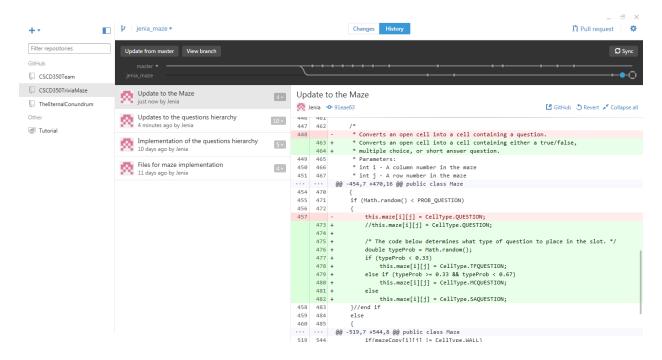


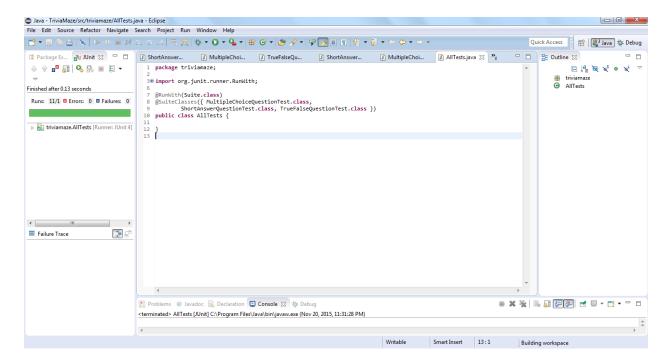
### Committing the changes to GitHub:





#### **Code Snippets:**





```
- -

    ■ ShortAnswer...

                                                                                J MultipleChoi...
                                                                                                    J AllTests.java
  980
          @Override
A 99
          public boolean checkCorrectAnswer(String input)
 100
 101
               char ch = input.toUpperCase().charAt(0);
              String answer = getAnswerAtIndex(ch);
 102
 103
              return answer.equalsIgnoreCase(this.getCorrectAnswer());
          }//end checkCorrectAnswer
 104
 105
 106
 107⊝
           \ ^{st} This overrides the hook for the Question superclass.
 108
           \ensuremath{^{*}} Multiple choice questions have the special functionality to have
 109
           * the answer choices randomly shuffled.
 110
 111
 112
 113⊝
          @Override
          public void specialFunction()
△114
115
              String [] choices = this.getChoices();
for (int i = 0; i < choices.length; i ++)</pre>
 116
 117
 118
                   int j = (int)(Math.random() * choices.length);
 119
                   String temp = choices[i];
choices[i] = choices[j];
 120
 121
 122
                   choices[j] = temp;
 123
              }//end for
          }//end specialFunction
 124
 125
 126
 127⊜
           * Maybe eliminate one or two of the wrong answer choices.
 128
           * Notify the user of the wrong choice(s).
 129
```

```
MultipleChoi...
                                           TrueFalseQu...
                                                                 J ShortAnswer...

    MultipleChoi... 
    □ AllTests.java

                                                                                                                                          55
               assertEquals("Olympia", test.getCorrectAnswer());
 56
          }//end testGetCorrectAnswer
 57
 58
 59⊝
          @Test
 60
          public void testGetChoices()
 61
              assertEquals("Seattle", test.getChoices()[0]);
assertEquals("Olympia", test.getChoices()[1]);
assertEquals("Spokane", test.getChoices()[2]);
 62
 63
 64
 65
               assertEquals("Washington DC", test.getChoices()[3]);
 66
          }//end testGetChoices
 67
 68
 69⊝
          @Test
 70
71
          public void testCheckCorrectAnswer()
 72
               /* These are acceptable answers */
               String a1 = "B";
String a2 = "b";
 73
 74
 75
 76
               assertEquals(true, test.checkCorrectAnswer(a1));
 77
               assertEquals(true, test.checkCorrectAnswer(a2));
 78
 79
               /* These are unacceptable answers */
               String a3 = "a";
String a4 = "C";
 80
 81
 82
 83
               assertEquals(false, test.checkCorrectAnswer(a3));
 84
               assertEquals(false, test.checkCorrectAnswer(a4));
 85
          }//end testCheckCorrectAnswer
```

```
_ [

    ■ MultipleChoi...

    ShortAnswer... 
    ShortAnswer... 

                                                                                                                                                                                                                                                                                                                                        AllTests.java
                                  public voia testuetkeywords()
       61
                                               assertEquals("red", test.getChoices()[0]);
assertEquals("white", test.getChoices()[1]);
assertEquals("blue", test.getChoices()[2]);
      62
      63
      64
      65
                                  }//end testGetKeywords
      66
      67
      68⊜
                                 @Test
                                  public void testCheckCorrectAnswer()
       69
       70
                                               /* These are acceptable answers */
String a1 = "red";
String a2 = "WHITE";
       71
       72
       73
                                                String a3 = "A color is blue.";
String a4 = "Red is on the French flag";
       74
       75
       76
       77
                                                assertEquals(true, test.checkCorrectAnswer(a1));
       78
                                                assertEquals(true, test.checkCorrectAnswer(a2));
       79
                                                assertEquals(true, test.checkCorrectAnswer(a3));
       80
                                                assertEquals(true, test.checkCorrectAnswer(a4));
      81
       82
                                                  /* These are unacceptable answers */
                                                String a5 = "RRED is there!";
      83
                                               String a6 = "b lue";
String a7 = "Whiite";
      84
      85
                                                String a8 = " w@hite";
      86
      87
      88
                                                assertEquals(false, test.checkCorrectAnswer(a5));
      89
                                                assertEquals(false, test.checkCorrectAnswer(a6));
                                               assertEquals(false, test.checkCorrectAnswer(a7));
assertEquals(false, test.checkCorrectAnswer(a8));
      90
      91
      92
                                  }//end testCheckCorrectAnswer
      93
```

```
☐ TrueFalseQu... 
☐ "6
AllTests.java
                                                                                                                  35
            test.setQuestion("The length of a year on earth is 365 days.");
36
            test.setCorrectAnswer("F");
37
        }//end setUp
38
39
40⊝
        @After
41
        public void tearDown() throws Exception {}
42
 43
44⊝
        @Test
        public void testGetQuestion()
{
45
 46
 47
            assertEquals("The length of a year on earth is 365 days.", test.getQuestion());
 48
        }//end testGetQuestion
49
50
51⊕
        @Test
        public void testGetCorrectAnswer()
52
53
            assertEquals("F", test.getCorrectAnswer());
54
55
        }//end testGetCorrectAnswer
56
57
58⊖
        @Test
59
        public void testCheckCorrectAnswer()
60
61
            assertEquals(true, test.checkCorrectAnswer("f"));
62
            assertEquals(true, test.checkCorrectAnswer("F"));
63
            assertEquals(false, test.checkCorrectAnswer("false"));
64
            assertEquals(false, test.checkCorrectAnswer("T"));
65
        }//end testCheckCorrectAnswer
66
67 }//end TrueFalseQuestionTest
68
```