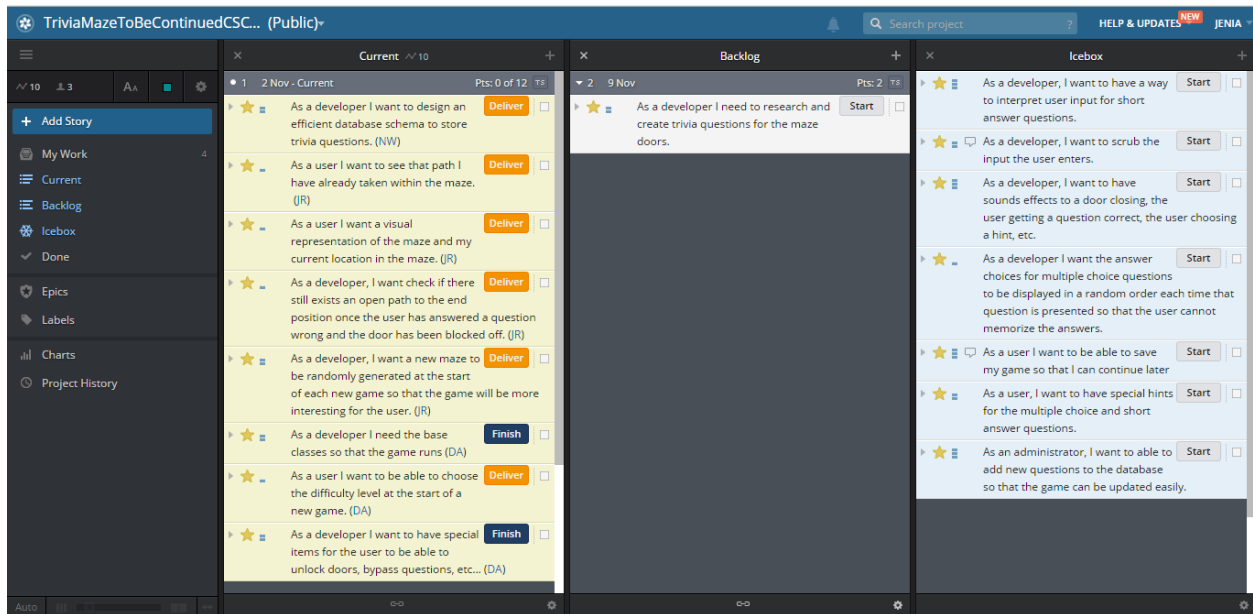


CSCD 350 Software Engineering

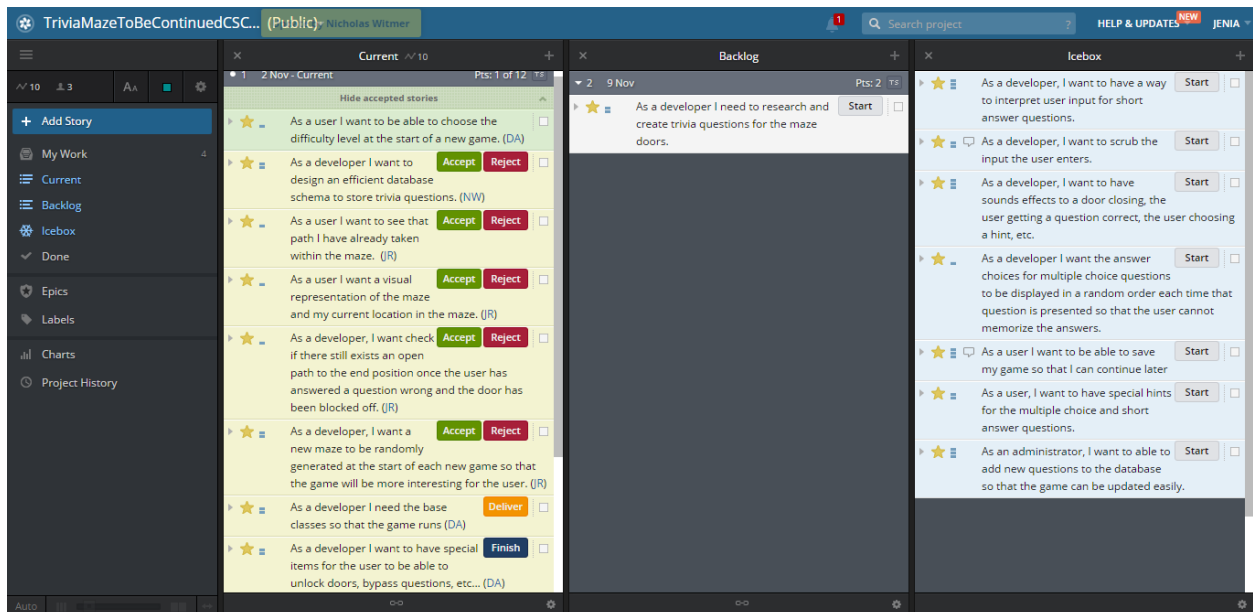
End of 1st Iteration

Jenia's Work for Iteration 1:

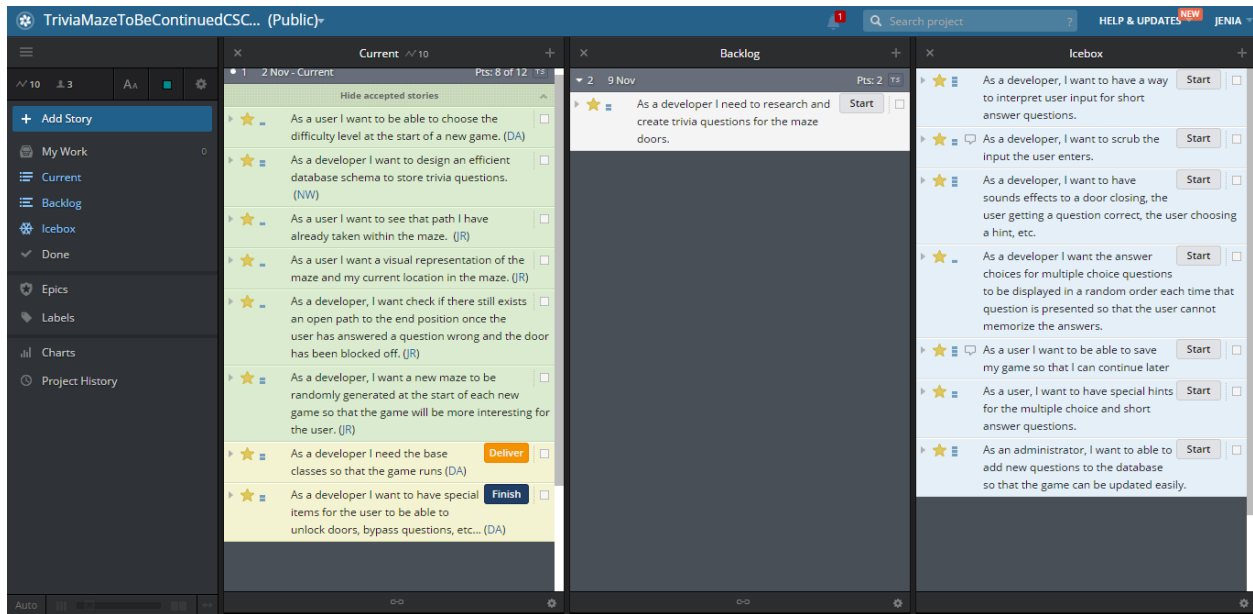
Finishing stories:



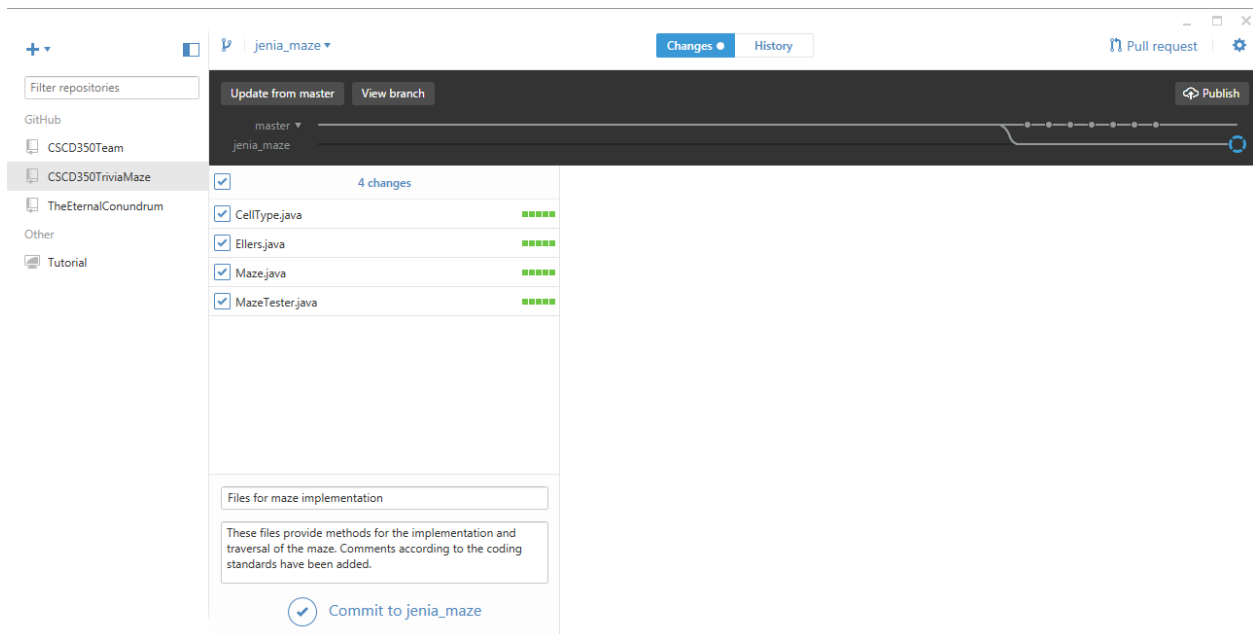
Delivering user stories:



Stories accepted:



Adding files to GitHub:



Committing the changes:

The screenshot shows the IntelliJ IDE interface for the 'jenia_maze' branch. The left sidebar displays the project structure with 'CSCD350TrivialMaze' selected. The main editor area shows the 'Files for maze implementation' directory, which contains four files: 'CellType.java', 'Ellers.java', 'Maze.java', and 'MazeTester.java'. The commit message at the bottom is 'Created commit: 'Files for maze implementation''.

Code Snippets:

The screenshot shows the IntelliJ IDE interface for the 'jenia_maze' branch. The left sidebar displays the project structure with 'CSCD350TrivialMaze' selected. The main editor area shows the 'Files for maze implementation' directory, which contains four files: 'CellType.java', 'Ellers.java', 'Maze.java', and 'MazeTester.java'. The code snippets are displayed in a list, showing the implementation of the Maze class and its methods.

```
3 + import java.util.Scanner;
4 +
5 + /**
6 +  * Maze.java
7 +  * Author: Jenia Rousseva
8 +  * Revision: N/A
9 +  * Date: 11/08/2015
10 +  * This file provides the basic construction for a 2-D non-perfect maze.
11 +  * The maze contains slots which are either walls, open spaces, or questions.
12 +  * This file also contains the methods for traversal through the maze and
13 +  * for finding if a path(s) exist(s) from the start to the end of the maze.
14 +  */
15 +
16 + public class Maze
17 + {
18 +     static final double PROB_OPEN = 0.5;
19 +     static final double PROB_QUESTION = 0.65;
20 +
21 +     private int curRow, curCol, prevRow, prevCol;
22 +     private CellType[][] maze;
23 +
24 +     private boolean isEnd;
25 +
26 +
27 +     /*
28 +      * Calls Eller's algorithm to generate a perfect maze. Then, converts this
29 +      * maze into a non-perfect maze
30 +      */
```

jenia_maze

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Tutorial

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masterjenia_maze

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Files for maze implementation

1 minute ago by Jenia

Files for maze implementation

Jeniaada6734

GitHubRevertCollapse all

These files provide methods for the implementation and traversal of the maze. Comments according to the coding standards have been added.

CellType.java

@@ -0,0 +1,55 @@

1 + package trivialmaze;

2 +

3 + /**

4 + * CellType.java

5 + * Author: Jenia Rousseva

6 + * Revision: N/A

7 + * Date: 11/08/2015

8 + * This file defines an enum for the various types of cells that may appear

9 + * in the 2-D maze.

10 + */

11 +

12 + public enum CellType

13 + {

14 + START,

15 + END,

16 + OPEN,

17 + WALL,

18 + QUESTION,

19 + VISITED,

20 + SUCCESS,

21 + BEEN_HERE,

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Files for maze implementation

3 minutes ago by Jenia

Files for maze implementation

Jeniaada6734

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17 + import java.util.Random;

18 +

19 + public class Ellers

20 + {

21 + static final int UNDETERMINED = -2;

22 + static final int SET_WALL = -1;

23 +

24 + int rows; //the rows in the representative maze

25 + int cols; //the cols in the representative maze

26 +

27 + int act_rows; //the actual number of rows in the maze

28 + int act_cols; //the actual number of cols in the maze

29 +

30 + CellType[][] maze;

31 +

32 + int[] current; //the current row, excluding the outer walls

33 + int[] next; //the next row, excluding the outer walls

34 +

35 + int numSet; //track set numbers to make sure not to duplicate

36 +

37 + int curRow;

38 + int curCol;

39 +

40 +

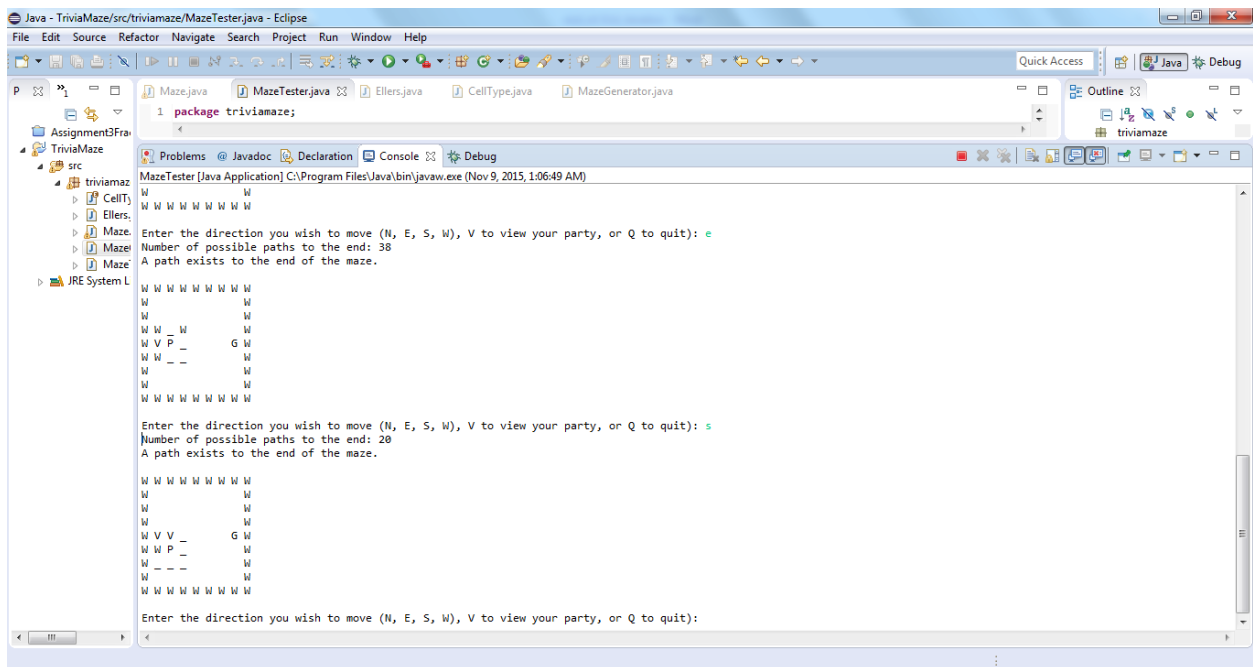
41 + /*

42 + * Generates a perfect maze using Eller's algorithm.

43 + * Parameters:

44 + * int nRows - actual number of rows

Example of maze traversal:



```
Java - TriviaMaze/src/triviamaze/MazeTester.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help

Maze.java MazeTester.java Ellers.java CellType.java MazeGenerator.java
1 package triviamaze;

Problems Javadoc Declaration Console Debug
MazeTester [Java Application] C:\Program Files\Java\bin\javaw.exe (Nov 9, 2015, 1:06:49 AM)

Enter the direction you wish to move (N, E, S, W), V to view your party, or Q to quit): e
Number of possible paths to the end: 38
A path exists to the end of the maze.

W W W W W W W W
W                W
W                W
W W _ W          W
W V P _          G W
W W _ _          W
W                W
W W W W W W W W

Enter the direction you wish to move (N, E, S, W), V to view your party, or Q to quit): s
Number of possible paths to the end: 20
A path exists to the end of the maze.

W W W W W W W W
W                W
W                W
W                W
W V V _          G W
W W P _          W
W _ _ _          W
W                W
W W W W W W W W

Enter the direction you wish to move (N, E, S, W), V to view your party, or Q to quit):
```