**Refactoring Documentation for Project “Minesweeper-2”**

<https://github.com/TeamMinesweeper2/Minesweeper>

**Team**

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1. Reformatted code, removed labels, removed comments.
2. Removed IsFoundInRandomNUmbers.
3. Removed int[,] state, and added isAlive.
4. Removed unnecessary matrix initialization.
5. Renamed variables and methods.
6. Changed mineField to bool[,].
7. Top scores done with SortedDictionary.
8. Formatted curly braces.
9. Added Position class to hold the position in the game matrix.
10. Implemented Position in CountNeighborCell method.
11. Added and implemented class ConsoleManager and enumeration ErrorType.
12. Removed board drawing from Main.
13. Minesweeper game made non-static.
14. Position class renamed to Cell and made struct.
15. Extracted CommandReader class.
16. ConsoleManager class made non-static.
17. Renamed methods in ConsoleManager class.
18. Extracted Minefield class.
19. Minefield class decoupled from ConsoleManager.
20. Minefield size is set in constructor.
21. ConsoleManager initialized in constructor.
22. Added IUserInputReader interface.
23. Added BoardDrawer class.
24. Added IRandomGeneratorProvider interface.
25. RandomGeneratorProvider implemented as Singleton and used in minefield.
26. Added ICell interface and implemented Cell class.
27. Removed hard coded messages from ConsoleManager.
28. Moved all interfaces to Interfaces folder.
29. Add constants for all commands in CommandReader class.
30. Used Split string and TryParse when parsing user input.
31. Added restart, show score and exit game methods.
32. Modified Minefield class to use ICell and shuffle the mines.
33. Added IRender and implemented ConsoleRenderer.
34. Fixed bug in Minefield - missing cell initialization.
35. Fixed bug with exception in Shuffle method in the Minefield class.
36. Deleted the rows/cols properties/fields from Cell class.
37. Added ClearLines method to IRenderer interface.
38. UIManager is now decoupled from the System.Console.
39. Added 'boom' command which reveals all mines as if a mine was opened.
40. Moved independent classes to a class library Minesweeper.Lib
41. Added CellImage enumeration and GetImage method to the Minefield class.
42. Initial, game and final minefield are now drawn with one method.
43. Implemented Command Pattern – commands are now classes of type ICommand.
44. Added FlagCell command to enable marking of cells.
45. Added method for game end when all empty cells are opened.
46. Renamed method GetValueCount to ConvertMinefield and changed its return type to Genereic.
47. Scoreboard limited to 5 places (add a new score, sort and take the top five).
48. Added setters for rowsCount, columnsCount, numberOfMines in Minefield class.
49. Converted method GetOpenedCells to property in Minefield class.
50. First cell will not have mine (by transferring to a random empty cell).
51. Open empty cells recursively (save the user extra effort to open obvious empty cells).
52. Added interface for CellPosition.
53. Renamed ICellPos to ICellPosition.
54. Changed input type for FlagCellHandler to ICellPosition.
55. Added unit tests and xml documentation.
56. Ran StyleCop with default rules and corrected warnings.
57. Moved ICellPosition to Interfaces folder.
58. BoardDrawer constructor takes 1 parameter instead of 4
59. UIManager ctor takes 1 parameter instead of 3
60. UIManager has two constrcutors
61. CommandParser.ParseCommand made virtual
62. CommandParser.Game made protected

commit 2aae6d0