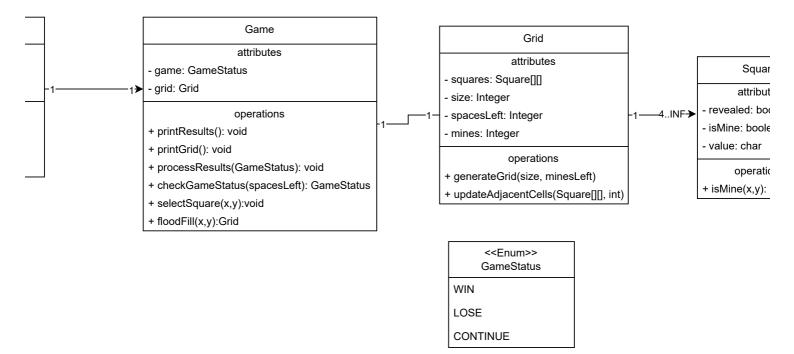
CommandProcesser

attributes

- game: Game
- scanner: Scanner

operations
processInputs(): void
validateInitialInput(): void
validateSquareSelection(): void



re

tes olean

ean

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boolean

```
# Problem statement: MineSweeper App
Write a program that simulates a Minesweeper game on a square grid.
```

- The game should begin by prompting the user for the grid size and the number of mines to be randomly placed on the grid.
- The program should then generate the grid and randomly place the specified number of mines on the grid.
- The user should then be prompted to select a square on the grid to uncover.
 - If the selected square contains a mine, the game is over and the user loses.
- Otherwise, the selected square is uncovered and reveals a number indicating how many of its adjacent squares contain mines.
- If an uncovered square has no adjacent mines, the program should automatically uncover all adjacent squares until it reaches squares that do have adjacent mines.
- The game is won when all non-mine squares have been uncovered.
- The program should display the game grid and allow the user to input their choices through a command line interface.
- Additionally, the program should track the user's progress throughout the game, displaying the minefield after each user input.

Select a square to reveal (e.g. A1): D4 This square contains 0 adjacent mines.

Here is your updated minefield:

1 2 3 4

A _ _ 2 0 B _ _ 2 0 C _ 2 1 0 D _ 1 0 0

Select a square to reveal (e.g. A1): B1 This square contains 3 adjacent mines.

Here is your updated minefield:

1 2 3 4

A _ _ 2 0 B 3 _ 2 0 C 2 1 0

#Requirements rewritten

1.Application is a minesweep
2.Application should be able
3.The user will be freely ab
4.The application should gen
5.The user will be able to it
6. The field will be filled
7. When the user selected at
8. When the user selected at
9. When the user selected at
10. Display the minefield af
11. Display only the reveale

```
er game.

to be read user inputs.

le to input grid sizes and mines count
erate a 2d mine field.

nput a X and a Y dimension to specify a location on the field
with mines and numbers.

mine on the field, the game is lost

1 the grids, the game is won
'0' the surrounding 0 will be revealed + 1 in the border (Flood fill algo)?

ter every selection.

d fields.
```