Requirements specification Sprint 5

The goal is to develop a multiplayer feature in our 2048 clone. These requirements extend the other requirements.

All of the requirements have each been given a unique identifier followed by a number:

"I" for interface requirements; "Al" for the solver requirements; "U" for undo-function requirements; "R" for redo-function requirements.

Functional Requirements

User Interface

- I1: The user-interface should have an undo button that the player can click to use the undo function.
- I2: Next to the undo button the interface should have an redo button that the player can click to use the redo function.
- 13: The tiles in the grid should be animated during a move, visualizing the direction the tiles move in.

Undo/redo

- U1: With the undo button the user should be able to go multiple moves back.
- R1: After a move is undone, the user should be able to go a move forward with the redo function.
- R2: It should be possible to redo all of the undone moves untill a new move is made.

Solver

- Al1: The Ai should be able to win 50% of the singleplayer-games it plays.
- Al2: The player should be able to choose in the multiplayer menu to play versus the computer instead of a different player.
- Al3: The Al should be able to look at the player's grid and add a tile to it that would hinder the player the most from winning.
- Al4: The Al should be able to make an effective move for the player when the player asks for a hint.