Software Engineering Cowards – SPRINT 5 DELIVERABLE

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https://github.com/RedSoxFan/2174\_CS1530\_SoftwareEngineeringCowards

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SPRINT 5 ACCOMPLISHMENTS

We once again communicated mainly by talking in class and through a group text. The major accomplishments this sprint was adding the timers to both sides of the game so that the players are now more limited in the time they can take to make a move, and implementing some of the more complex rules such as shield wall. Along with implementing the timers and rules, a lot of refactoring was done to try and make the code more amenable to future changes for the final sprint. The refactoring limited the amount of user stories we completed, but it was necessary preparation for the AI to hopefully be added next sprint. The refactoring process is also making our code much more readable, so it is making completing other user stories a quicker process. We changed the game saving/loading process to allow the user to actually choose the file and folder using a GUI, instead of having the user simply type in a file name. We also allow for the user to use any filename they want, and should therefore be eligible to receive extra credit according to the deliverable 5 description. We had one customer interaction where we wanted to verify the specifics of the shield wall rule. We asked if it was necessary to have multiple walls for the shield wall capture, and we were told it was acceptable to only account for having a single wall for the shield wall rule. The shield wall code was a longer process than usual for the group with a lot of proposed changes to the code during code reviews. As sprints have gone on the quality of code has improved drastically. As our code got refactored, it was also necessary to update some of the tests to account for the fact that the code was changing. Overall there were not too many difficulties that arose during this sprint, and there was a lot of focus on refactoring code and making sure everything was operating efficiently and that there was not any code doing unnecessary work.

USER STORIES COMPLETED

**Story Points: 16**

As a player

I want a row of pieces along any edge to be captured, excluding the king, if there is an enemy piece on both ends and an enemy piece adjacent to each piece parallel to the edge (Shieldwall Capture)

So that the Copenhagen rules are obeyed

**Story Points: 8**

As a player

I want each player to have a timer that starts at five minutes

So that games cannot be drawn out due to players stalling

**Story Points: 4**

As a player

I want to have one side win if the other sides timer reaches zero

So that games cannot be drawn out due to players stalling

**Story Points: 2**

As a player

I want to have three seconds added to my timer after each turn

So that I always have at least a short amount of time to make a move

**Story Points: 2**

As a player

I want to have the timers displayed

So that I know how much time each side has left

**Story Points: 2**

As a player

I want to be able to save and load games with a dialog box

So that I can see what files already exist and save in a more intuitive manner

**Total Velocity: 34**

DEFECTS FOUND

No defects were found during this sprint.