**CHESS APPLICATION**

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**CS 1530 – SPRINT 2 DELIVERABLE**

**DESCRIPTION OF SPRINT**

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We went into this sprint with a bit more of a solid grasp on what we, as a team, needed to and were capable of accomplishing. During our previous sprint’s retrospective, we noted what our strengths and weaknesses were- both individual and as a group. We noticed that during our previous sprint, we had very effective communication. At no point during the sprint, did any of us feel as though we were stuck and could not voice our concerns to the other group members. One aspect of our last sprint that we wanted to improve for this next one, however, was being a bit more decisive on what we wanted to accomplish by the end of the sprint.

This sprint went very smoothly for our group. Our sprint planning session was very effective and efficient. We met up and discussed what user stories we wanted to complete by the end of the sprint. During our first sprint, we broke down our backlog of user stories into 3 categories (Chess GUI; Game Mechanics; Backend), and had a vague idea of how we felt would be most logical to go about completing all of them. Therefore, we were able to choose our user stories rather quickly and divided them up amongst us by taking into consideration what domains and aspects of programming each of us felt we were strongest and most familiar with.

Throughout the entirety of the two-week span, we communicated very well when we needed to. This sprint consisted of user stories that were centered around setting up our Chess GUI, and therefore because of the nature of the tasks that the user stories called for, we did not need to be in constant communication. We were able to complete our stories with minimal impact on one another. We did not have many disagreements. The only issue that arose was that a few of our user stories overlapped and therefore there were times when multiple team members (usually only 2 at a time) implemented aspects/code in slightly different manners on our interface. For example, 2 members both had stories that involved the size of the chess board itself- in terms of how big each square would be/how it would impact the size of the pieces, and in terms of how big the board would be in total/where it would fit on the screen in relation to other buttons and such. Whenever we ran into such issues and noticed that we had done so either when reviewing each other’s code on GitHub, or when discussing how we were planning to tackle our specific user story, we merely discussed our options and what would work best for the final chess application. Having our only real issues be too many ideas, rather than having clashing code that had no way of being able to be merged, was a better set of issues to have. In fact, it helped us think of many different ways we could go about implementing certain aspects of our application and what would work best.

We did not interact with the customer during this sprint. After the first/previous sprint, all we had developed was a general layout of how planned to complete the application in line with what the user said they wanted. After this second/current sprint, we have finally completed some of the key user stories. We now have a Chess GUI Interface set up and have most of our graphics determined. Before our sprint retrospective, we plan to consult our customer and show them what our paper prototypes were and how we transformed those drawings into a functional graphical display. We hope that their feedback will provide us with a sense of direction- whether our ideas seem to be in line with theirs, or if we need to take a step back and try to understand what they are envisioning in a different way.

We faced many challenges when writing our code. During this sprint, we were finally starting to create our graphical product and develop the components of it. After doing some research on which domains would be most efficient and effective for our chess application, we found that the IDE NetBeans would be suitable. However, becoming familiar with this IDE was a challenge. We each had to do research and watch videos on how to actually design a GUI. None of us had any prior experience in creating a GUI using NetBeans. Once we began to mess around with it and try out different features, we became much more familiar with how it worked and what we could do on it. We did not come across any challenges when writing our tests once we got started and figured out what exactly we needed to test for- both base cases (expected use cases) and edge cases (unexpected use cases).

**LISTING OF COMPLETED USER STORIES & STORY POINTS**

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* As a player

I want to play a graphical version of chess

So that I do not need to carry a board with me everywhere.

STORY POINTS: 16

* As a player

I want a chess interface that is intuitive

So that I can easily play without the need to learn additional unnecessary game mechanics.

STORY POINTS: 4

* As a player

I want a chessboard and chess pieces that accurately resemble that of their physical counterpart

So that I can easily distinguish both the chessboard and each chess piece on the board.

STORY POINTS: 8

* As a player

           I want this game to run on a computer; not on mobile

           So that I can see the game on a larger screen.

STORY POINTS: 2

* As a player

I want black pieces to be at the top of the board and white pieces to be at the bottom

           So that the game follows standard rules.

STORY POINTS: 2

* As a player

           I want the rank and file to be displayed around the board

           So that I can see what location a piece is at.

STORY POINTS: 8

* As a player

I want the chess board to be at the top of the display window and any buttons to be at the bottom

           So that I see the chess board clearly while playing a game.

STORY POINTS: 4 (not completed)

* As a player

I want a 2-dimensional board

           So that I do not see the pieces at an angle.

STORY POINTS: 16

* As a player

I want for there to be a section for all pieces currently out of play, on the side panel next to the game board

     So that I can easily assess the progress of each game.

STORY POINTS: 4

TOTAL VELOCIY = 60

**LINK TO CODE ON GITHUB**

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On GitHub: https://github.com/clm133/CS1530groupproject

**DETAILS OF WHY USER STORIES WERE CHOSEN**

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**LISTING OF DEFECTS**

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