Michael Lieu and Will Schreiner

CS Senior Design I

Assignment 10

<div align="center">Composed Meeting Logs</div>

In this document, the information from our data logs will be displayed. They will be separated by the date of meetings and list out the information exchanged from each team member. From mid-December to mid-January, these meetings were held remotely. For the rest of the time, these meetings were held in-person.

Log 1:

- Date: 10-30-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Discussion of high-level design of the Sudoku Solver

        - User inputs to board, board solves and returns output to user

        - Assignment 4

    - Discussion of tools and language to use for program

        - Python? C++? GUI tools? Design of algorithms?

    - Division of responsibilities and tasks

        - Michael Lieu was assigned frontend development

        - Will Schreiner was assigned backend development

        - Assignment 5

    - Compose rough tasks and milestones timeline

- Assignment 6

- Duration of time: ~ 2 hrs

Log 2:

- Date: 11-06-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Present findings, results, and conclusions based on research

        - Use Python, TkInter, human-solvable algorithms

    - Discuss low-level design of implementation

        - User inputs to GUI, GUI passes input data to solving implementation, solving implementation passes output data to GUI, GUI displays output to user

        - Square class, Board class, Display class

        - Assignment 4

    - Refine tasks and milestones timeline based off of new information from research

        - Assignment 6

- Duration of time: ~1.5 hours

Log 3:

- Date: 11-21-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

- Progress updates on design and development of each member's respective implementations + demos
  - Will had set up the square class and was developing the board data structure
  - Michael made the grid output to the user
- Discussion of how to move forward with work:
  - Michael planned on starting development for grid traversal
  - Will planned on continuing to construct the board
- Duration of time: ~ 1 hr

Log 4:

- Date: 12-4-2023
- Members present: Michael Lieu and Will Schreiner
- Summary of information:
  - Progress updates on design and development of each member's respective implementations + demos
    - Will finished the board data structure and started work on the board class
    - Michael refined grid output to user and started development of traversal
  - Discussion of how to move forward with work:
    - Will planned on continuing work of board class
    - Michael planned on continuing work for traversal functionality for GUI
  - Team effort on Assignment 1, 2, and 3
- Duration of time: ~3 hrs

Log 5:

- Date: 12-18-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Progress updates on design and development of each member's respective implementation + demos

        - Michael continued development on traversal

        - Will refined Square class, started work on basic data functions and board maintenance functions

    - Discussion of how to move forward with work:

        - Michael planned on adding a highlight cell function to improve user readability as well as implementing more traversal options

        - Will planned on continuing working on basic data functions and board maintenance functions

    - Adjusted timeline:

        - Assignment 6

    - Worked on and completed Assignment 7 (Project Constraints Essay)

    - Started work on Assignment 8 and 10 (Presentation Slides and Final Report)

- Duration of time: ~2 hrs

Log 6

- Date: 12-25-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Progress updates on design and development of each member's respective implementation + demos

        - Michael finished implementation of board display, traversal, and added highlight cell feature

        - Will Schreiner started work on board solving, finished implementation of Square class and board's basic functions and data structure

    - Discussion of how to move forward with work:

        - Michael planned on starting development of user inputs

        - Will Schreiner planned on continuing work for basic solve functions and advanced solve functions

- Duration of time: ~1 hr

Log 7

- Date: 1-5-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Progress updates on design and development of each member's respective implementation + demos

        - Michael started development of user inputs and deleting user inputs

        - Will continued work for basic solve functions and advanced solve functions

    - Discussion of how to move forward with work:

- Michael planned on continuing development of user inputs and deleting user inputs

- Will planned on continuing work for basic solve functions and advanced solve functions, as well as unit tests for solve functions

- Worked on Assignment 8 and Assignment 10 (Presentation Slides and Final Report)

- Duration of time: ~1.5 hr

Log 8

- Date: 1-12-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Progress updates on design and development of each member's respective implementation + demos

        - Michael continued development of user inputs and deleting user inputs

        - Will continued work for basic solve functions and advanced solve functions

    - Discussion of how to move forward with work:

        - Michael planned on continuing development of user inputs and deleting user inputs, as well as adding replacing user inputs

        - Will planned on continuing work for basic solve functions and advanced solve functions, as well as unit tests for solve functions

    - Continued work on Assignment 8 and 10 (Presentation Slides and Final Report)

- Duration of time: ~1.5 hr

Log 9

- Date: 1-28-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Progress updates on design and development of each member's respective implementation + demos

        - Michael continued development of user inputs, deleting user, and replacing inputs

        - Will continued work for basic solve functions and advanced solve functions

    - Discussion of how to move forward with work:

        - Michael planned on continuing development of user inputs, deleting user inputs, and replacing user inputs

        - Will planned on continuing work for basic solve functions and advanced solve functions, as well as unit tests for solve functions

- Duration of time: ~1 hr

Log 10

- Date: 2-12-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Progress updates on design and development of each member's respective implementation + demos

- Michael started revamping input, deleting, replacing of user inputs and traversal of board
- Will continued work for basic solve functions, advanced solved functions, more rigorous testing
  - Discussion of how to move forward with work:
    - Michael planned on continuing development of user inputs, deleting user inputs, replacing user inputs, and traversal of board
    - Will planned on continuing work for basic solve functions and advanced solve functions, as well as unit tests for solve functions
- Continued work on Presentation Slides and Final Report
- Duration of time: ~1.5 hr

Log 11

- Date: 2-26-2023
- Members present: Michael Lieu and Will Schreiner
- Summary of information:
  - Progress updates on design and development of each member's respective implementation + demos
    - Michael continued development for input, deleting, replacing of user inputs and traversal of board
    - Will continued work for basic solve functions, advanced solved functions, more rigorous testing
  - Discussion of how to move forward with work:

- Michael planned on continuing development of user inputs, deleting user inputs, replacing user inputs, and traversal of board

        - Will planned on continuing work for basic solve functions and advanced solve functions, as well as unit tests for solve functions

- Duration of time: ~1 hr

Log 12

- Date: 3-4-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Progress updates on design and development of each member's respective implementation + demos

        - Michael finished development of input, deleting, replacing of user inputs and traversal of board

        - Will continued work for basic solve functions, advanced solved functions, more rigorous testing

    - Discussion of how to move forward with work:

        - Michael planned on looking through codebase to understand how to integrate both implementations

        - Will planned on continuing work for basic solve functions and advanced solve functions, as well as unit tests for solve functions

- Worked on Presentation Slides and Final Report

- Duration of time: ~1.5 hr

Log 13

- Date: 3-25-2023

- Members present: Michael Lieu and Will Schreiner

- Summary of information:

    - Progress updates on design and development of each member's respective

      implementation + demos

        - Michael worked on integrating the frontend and backend implementation

        - Michael added arrow key traversal for board for more user accessibility

        - Will continued work on basic solve functions and advanced solve

          functions and continued testing efforts

        - Both members started adding docstrings for their work

    - Discussion of how to move forward with work:

        - Michael planned on continuing work for integration and adding more user

          accessibility features and helping Will with completing solving

          implementation of program

        - Will planned on continuing work for basic solve functions and advanced

          solve functions, as well continuing testing efforts

        - Will planned on adding backtracking solve functions for

          non-human-solvable fallback

        - Both members planned on continuing documentation efforts

- Continued work on Presentation Slides and Final Report

- Duration of time: ~1.5 hr

Log 14