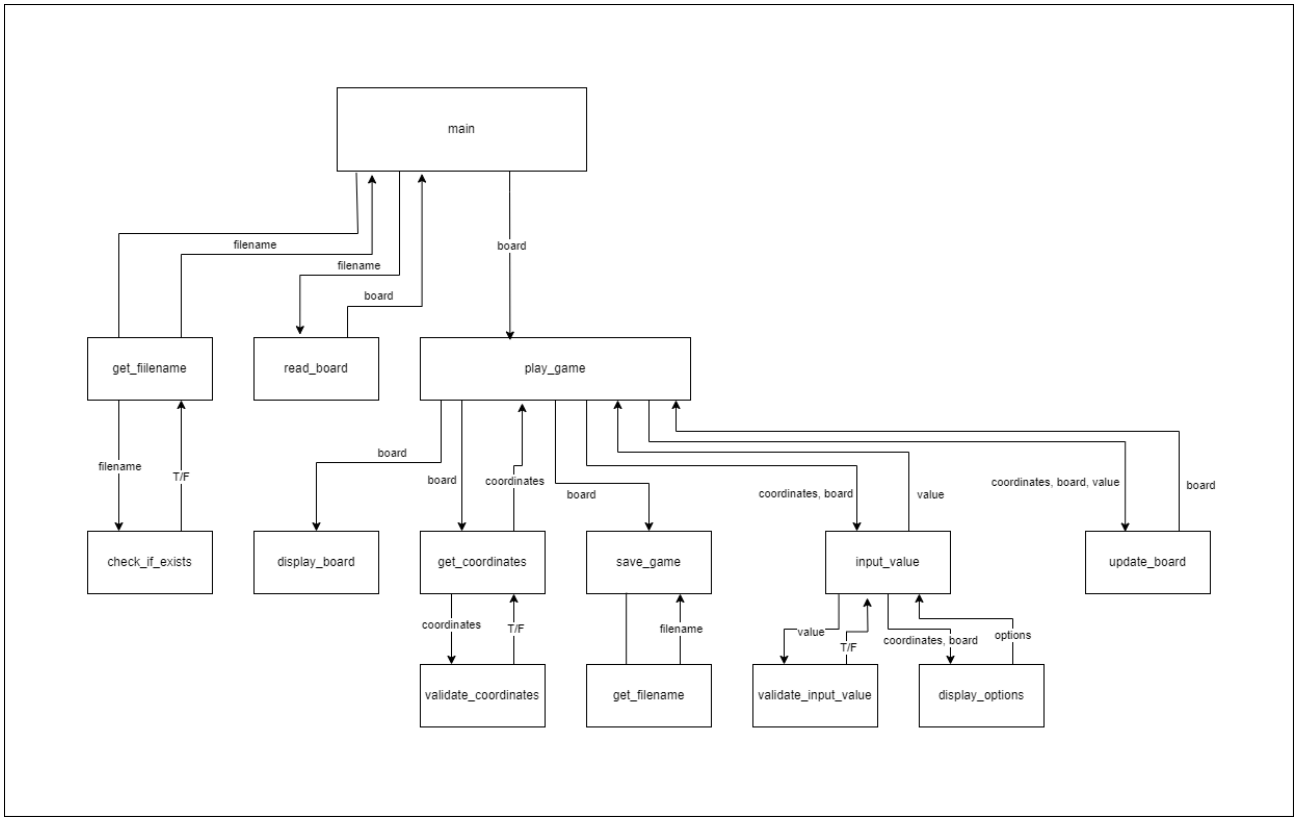
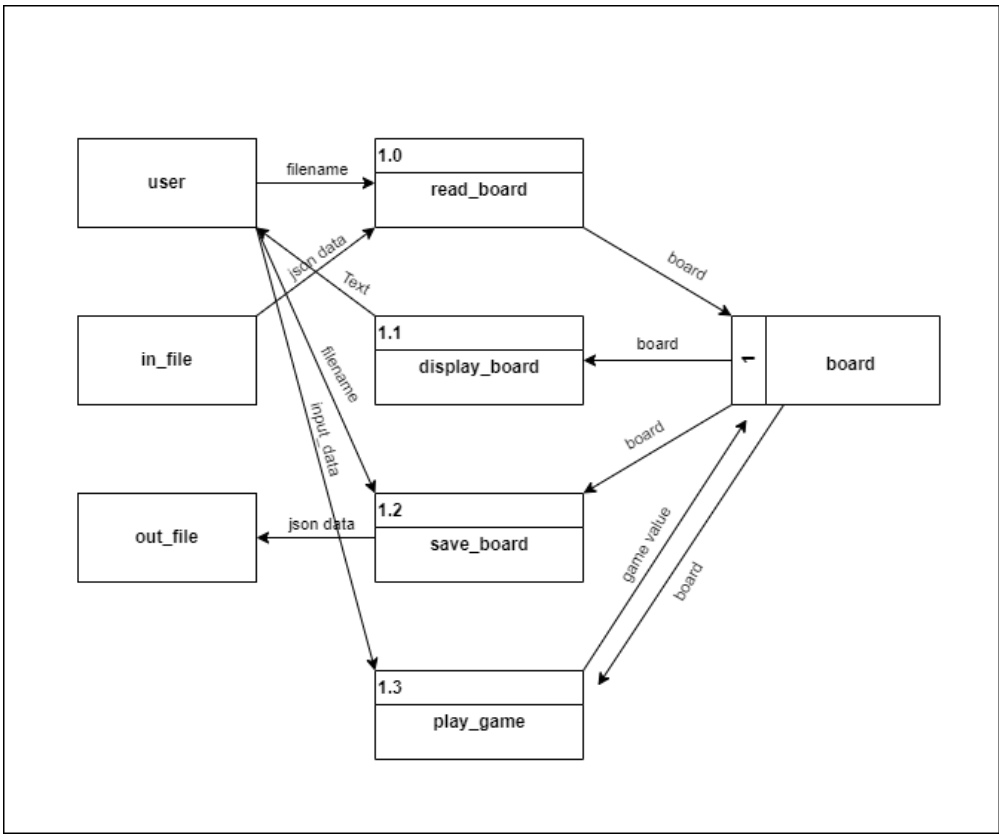
Lab 04

How long did it take for you to complete this assignment?
10 hours
What was the hardest part of the assignment?
The hardest part of the assignment was wrapping my mind around the requirements and what was needed for this design. The next hardest was making the data flow diagram from our concept of our structure chart. We talked with Brother Godderidge and he helped us realize that there isn't a good one to one mapping between structure charts and DFDs
Was there anything unclear about the instructions or how you were to complete this lab?
This lab was very clear. I didn't feel there was anything unclear about it.

Structure Chart



Data Flow Diagram



Pseudocode:

```
FUNCTION read_board(filename)
    OPEN file with filename
    READ board_data from file
    CLOSE file
    RETURN board_data
END FUNCTION


FUNCTION save_game(board, filename)
    TRY:
        OPEN file with filename for writing
        WRITE data to file as JSON
        CLOSE file
    EXCEPTION
        DISPLAY "An error occurred while saving the game."
END FUNCTION
```