




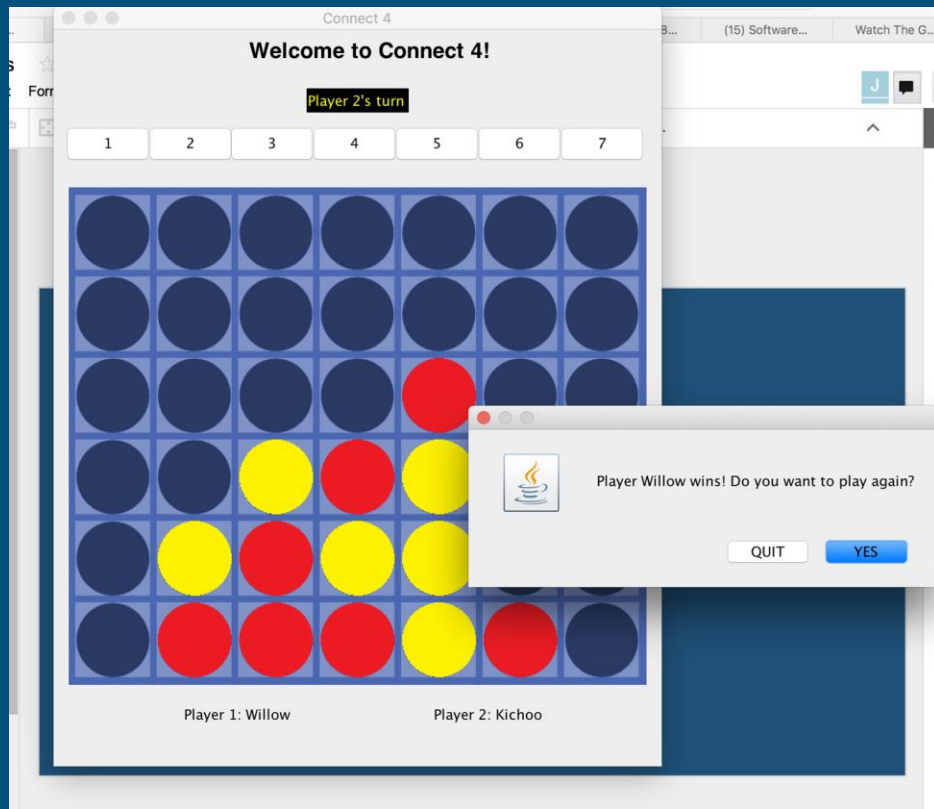
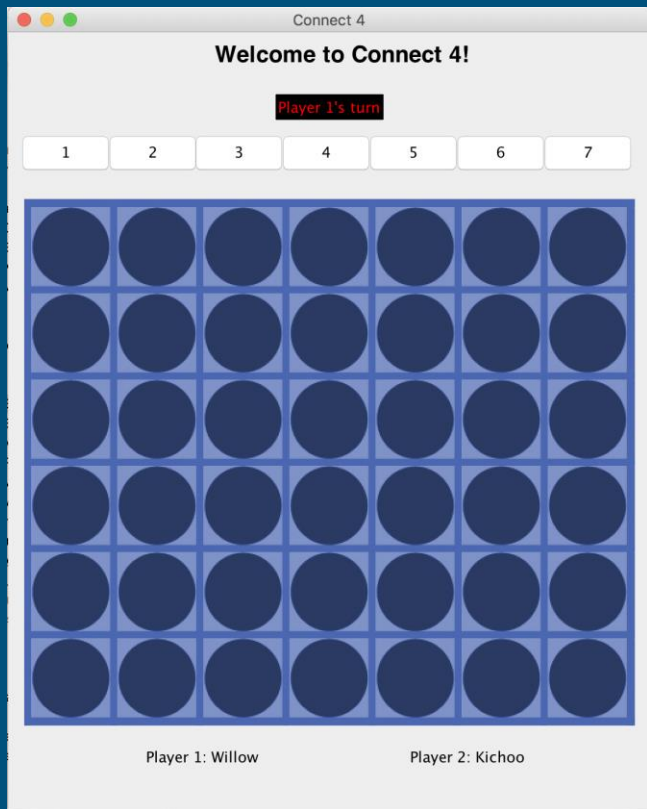
Connect Four



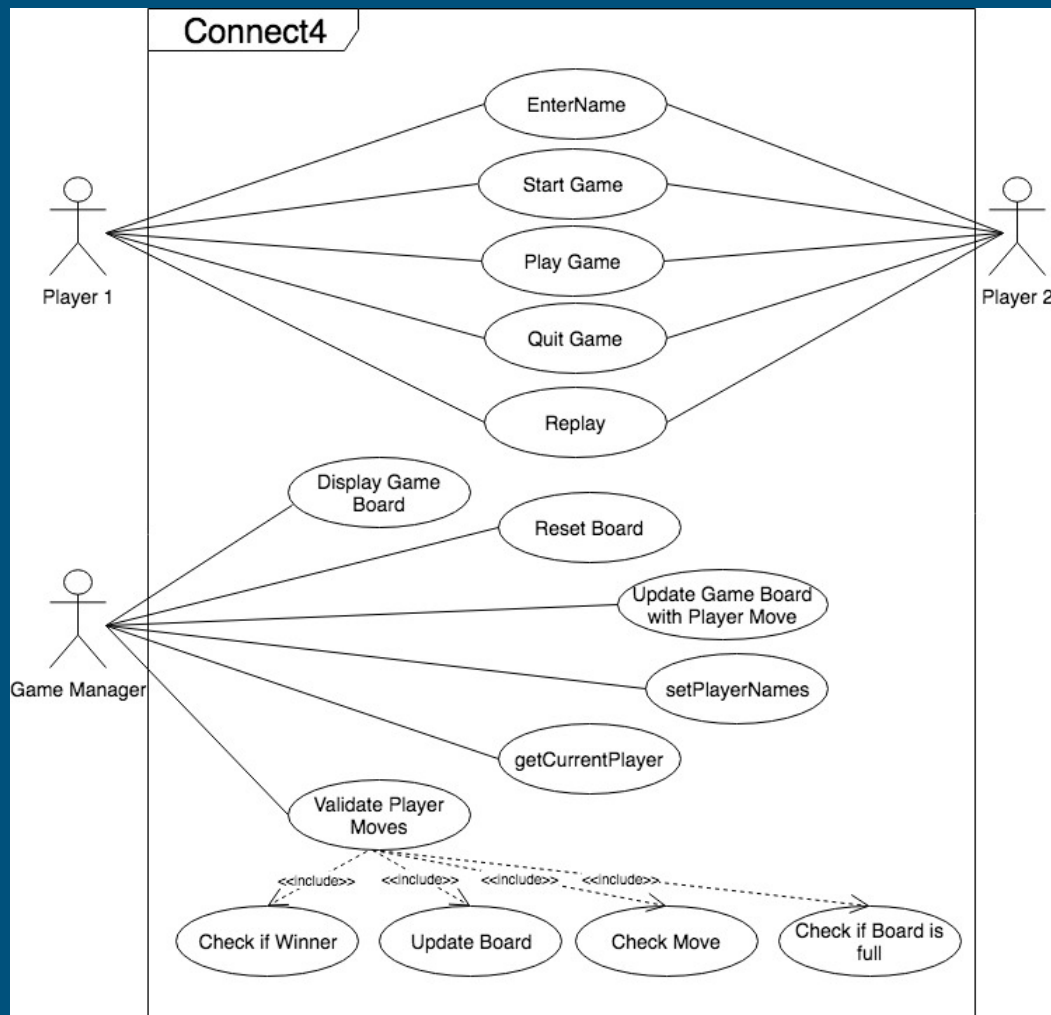
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14th March, 2018



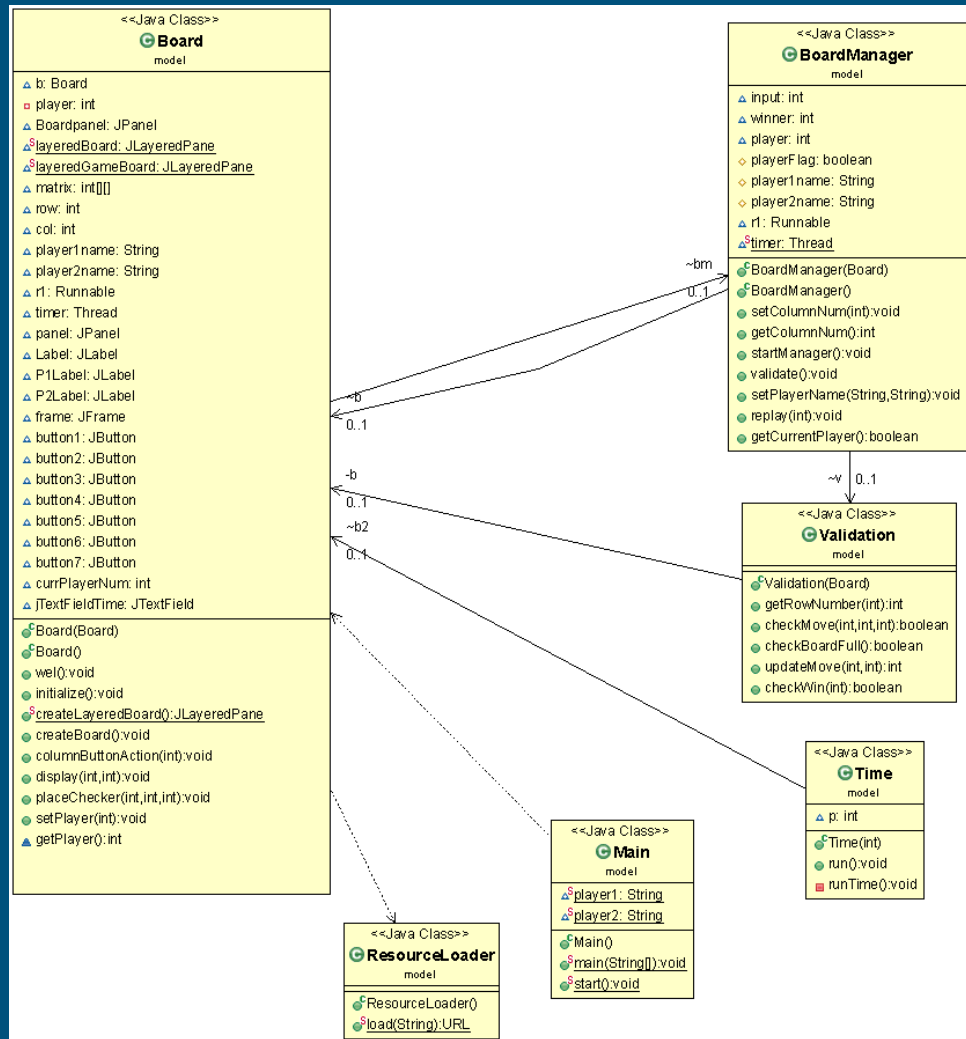
Demo



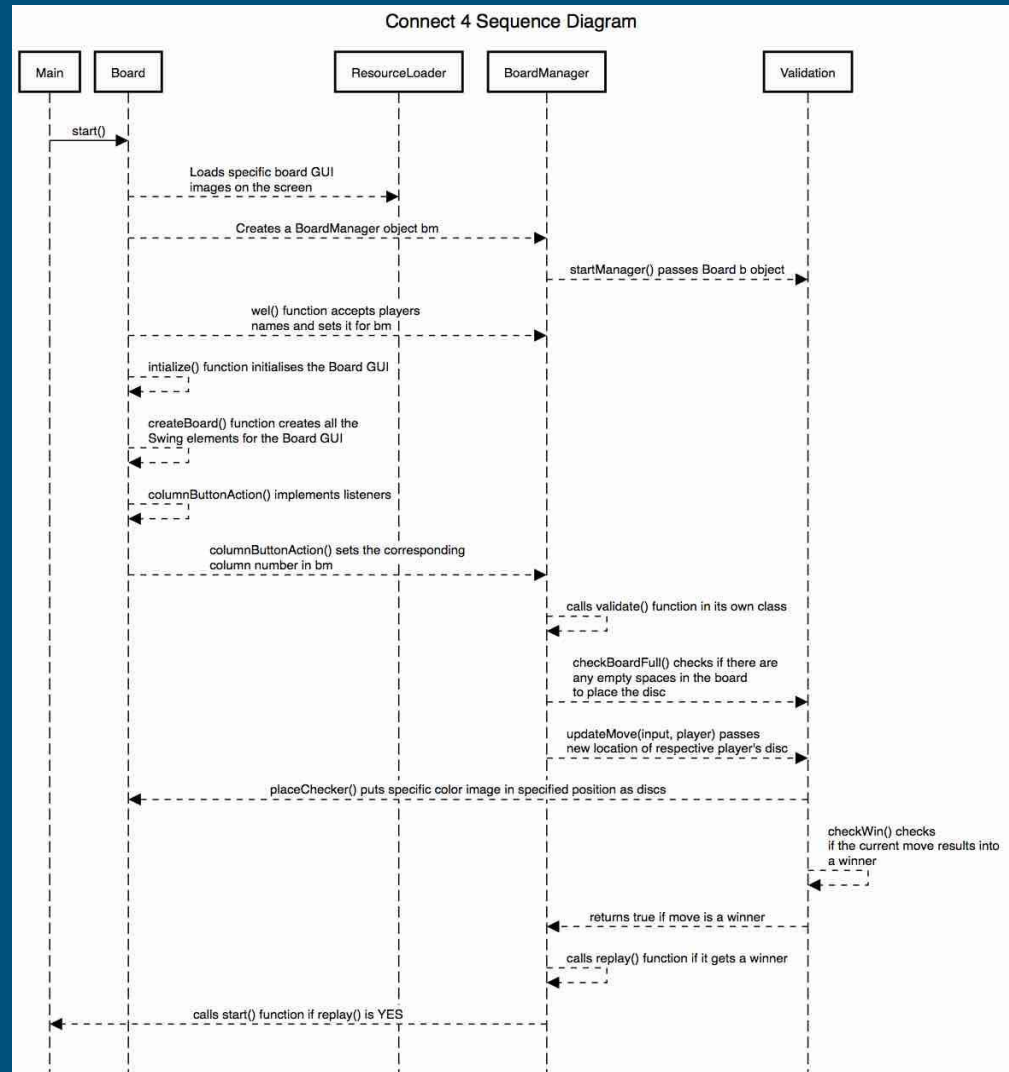
Use Cases



Class Diagram



Sequence Diagram



Traceability

1. Use class diagram/sequence diagram as link between requirements (uses cases) and code artefacts (or developers)
2. Use glossary of terms to describe classes, functions, states, and variables and documentate code descriptively
3. Use google doc to update, share the code and keep up versioning

Test

1. Separate testing of logic part and GUI
2. Examine every internal structure of program and attempt to test logical case - test the input causes the output of the program to be identical as the specifications would require
3. Integrate all dependent modules together

Test

- A. “Good” input
- B. “Bad” or malicious mistakes
 - a. For logic part:
 - i. Boundary conditions and values of different types (i.e. positive, negative)
 - ii. Logic based nested statements and case statements
 - iii. Entering condition and exit values of loop
 - b. For GUI
 - i. Everything display correctly
 - ii. Input has value
 - iii. Event listener and event handler

Review of Documentation

Future Scope

- Motion
- Countdown
- Load Game
- Undo/Reset

Lessons Learned

- Analysis phase helps in creating a functional model of the system regardless of constraints
- 5 C's ~ Law of Demeter ~ Separation of concerns
- OO principles
- Saves time, easier to hand-off, less complicated
- Better to completely avoid GOD objects(big ball of mud)
- Promotes use of objects
- Reusability

Thank You!
