

## pyMonopoly

**Name of project:** pyMonopoly

**Team members:** Tianyi Ma

### **Final State of System Statement :**

I finished most functions of the program, and also create some empty functions the allow users to do their own style monopoly games!

Function completed:

1. Play game:
  - Roll dice
  - Buy properties
  - Switch player
  - Save and quit game
2. Change settings:
  - Create player
  - Load map
  - Set startup money
  - Set number of player
  - Remove selected player
  - Save and go back
3. Load game
4. Exit the menu

Function not completed, and open for users to develop:

1. Trade
2. Special cards (chance and welfare)
3. Special map

### **Final Class Diagram and Comparison Statement:**

**Patterns:** Factory pattern, strategy pattern.

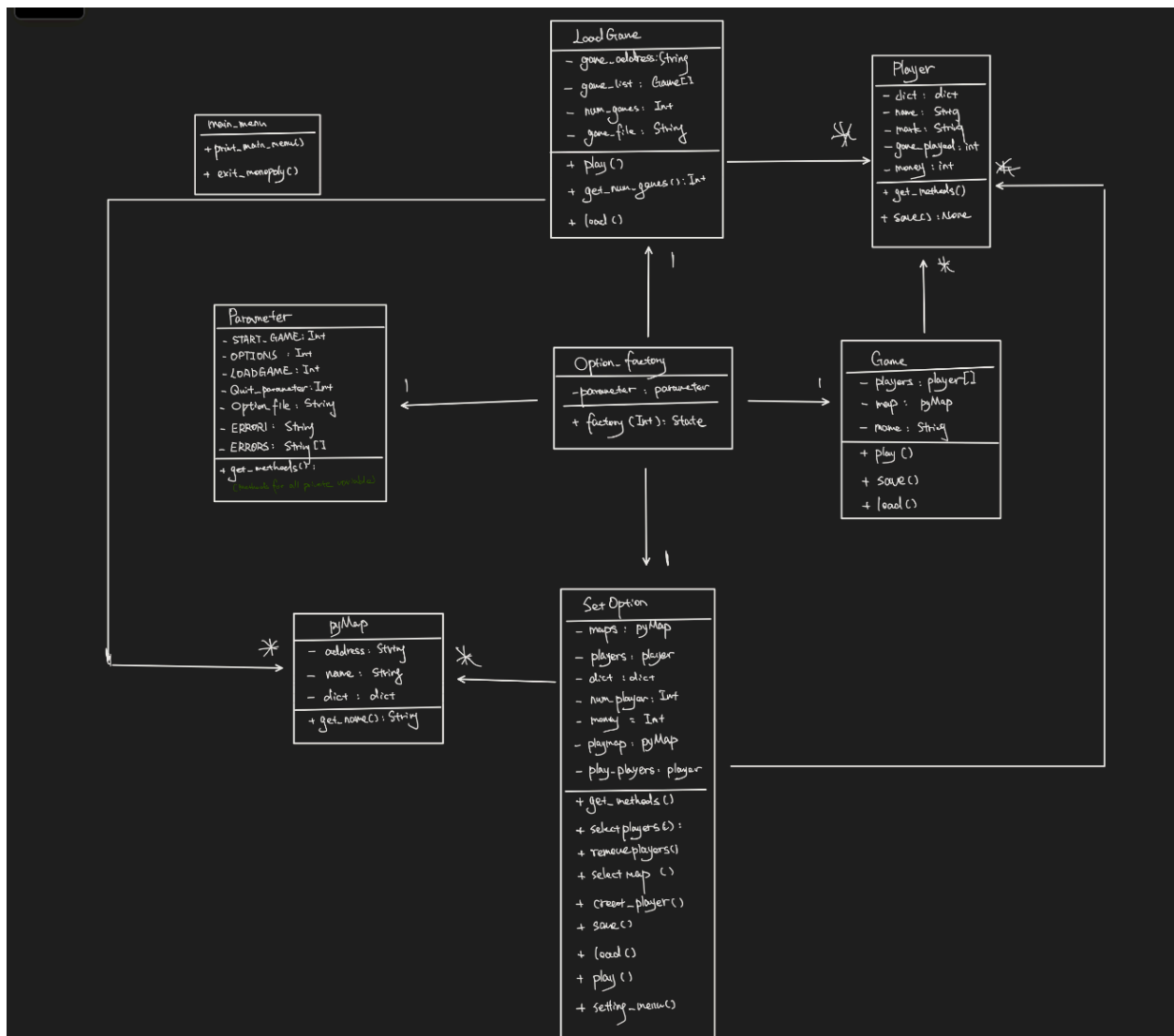
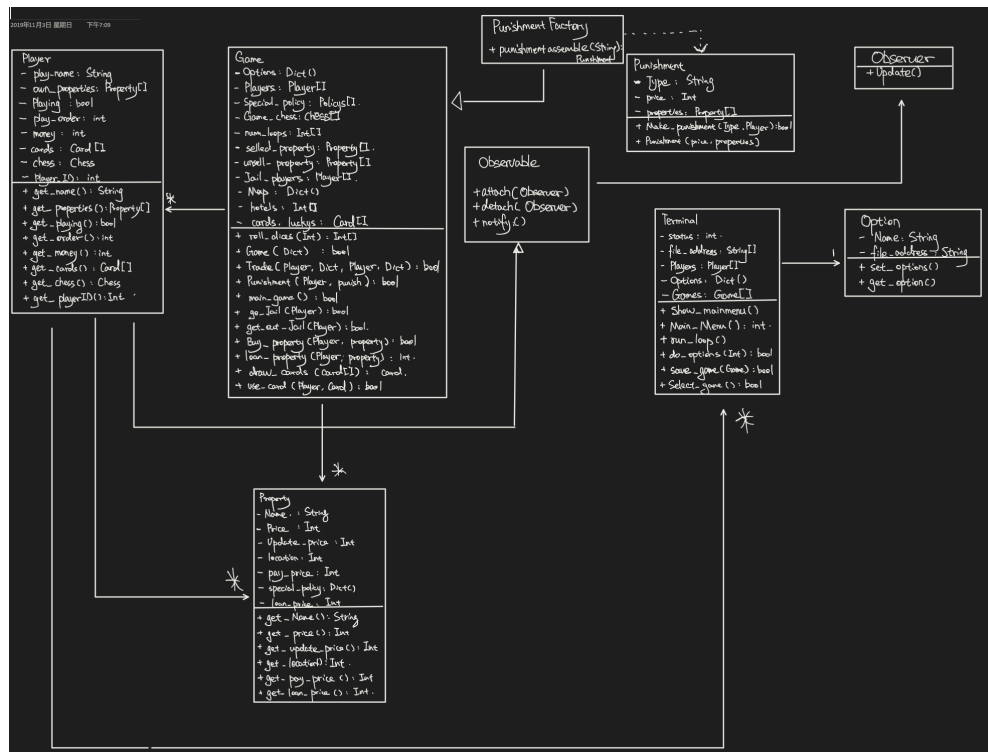
### **Final Class Diagram and Comparison Statement:**

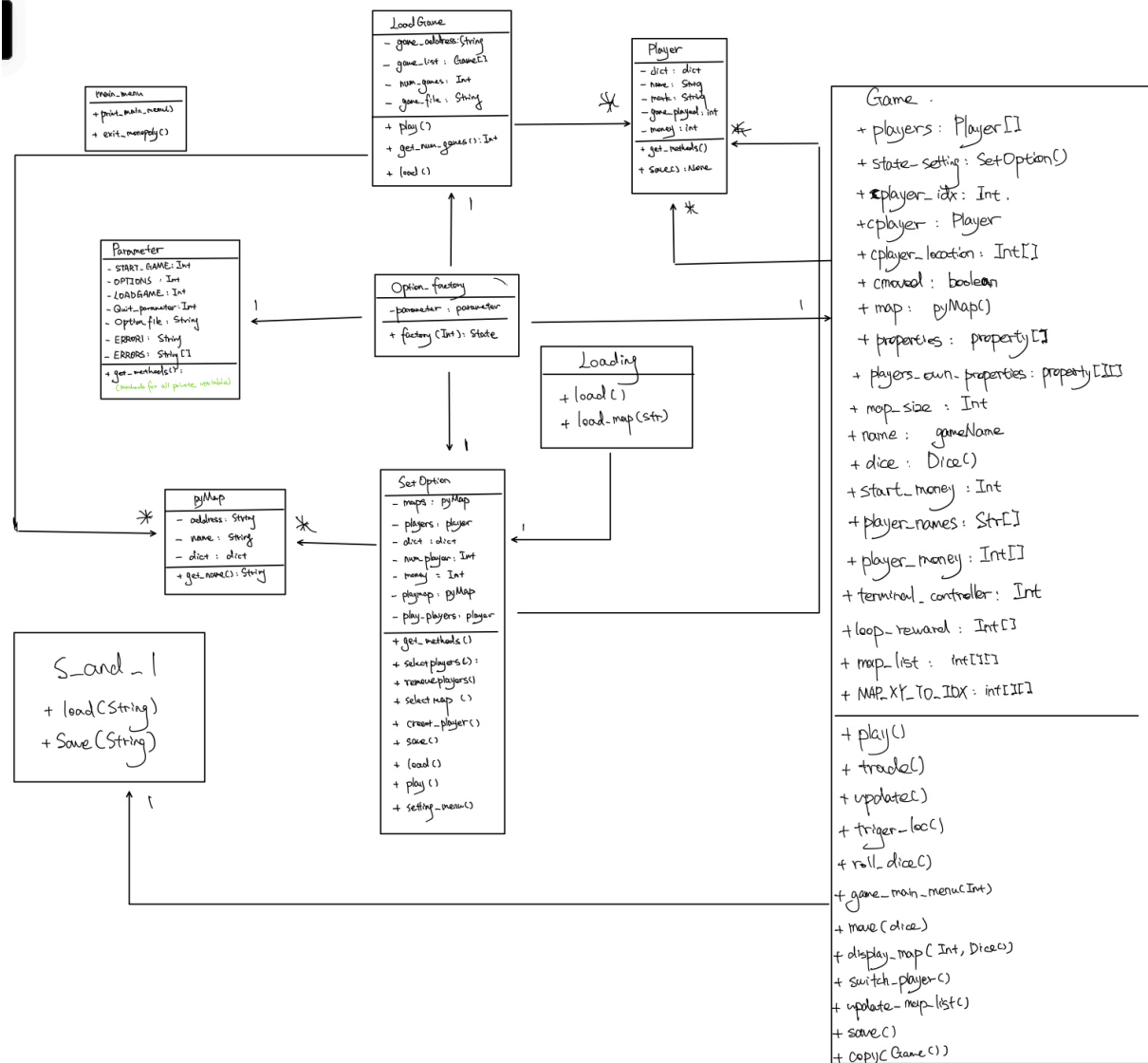
The main difference between the UML in project 4 and the final submission is some specific variables' names, and observer class. I did not use observer pattern, instead, I use update() function to keep tracking the players status.

The difference between the UML in project 5 and the final submission is class game. I finished implement class game before the final submission.

### **Diagram in project 4, and key changes:**

Bellow is UML diagrams from project 4, project 5, and final report. There is no significant change between project 4 and final submission, except more variables.



**Third-Party code vs. Original code Statement:**

All the codes in my program are made by myself.

**Statement on the OOAD process for your overall Semester Project:**

1. My program is a good open source for developers to create their own games
2. My code is consider of "code smell".
3. I develop some error response for users, if they does not use the program correctly.

**Github link:**

<https://github.com/MTYBilly03/pyMonopoly.git>