Moodlejump

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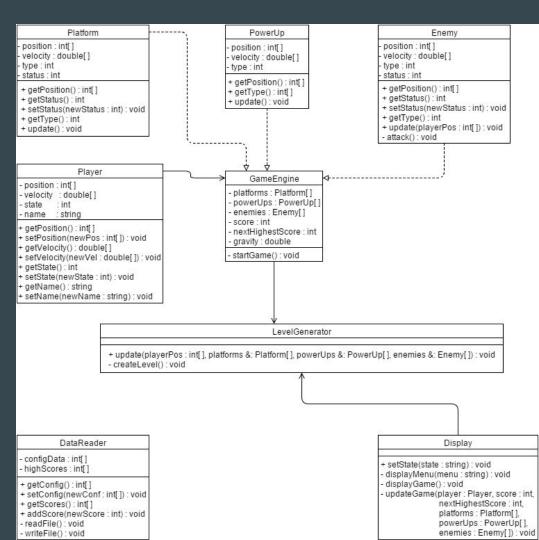
...

DEMO

Hopefully

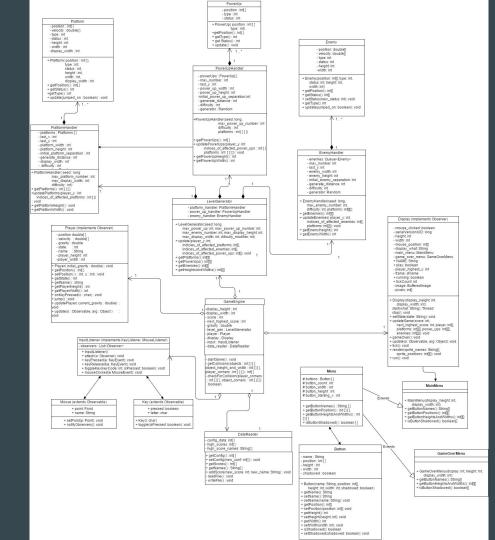
Class Diagram Before

Small and simple



Class Diagram After

- HUGE difference
- 18 classes vs 8
- Many new attributes/ associations
- Underestimated scope of project



Main Design Pattern

- Observer was the main design pattern we used
 - Observable "subjects" notify observer objects of change
- Our Observables: Keys, and Mouse
 - created classes that handled key and mouse input
- Our Observers: Display class and Player class
- InputListener class takes in input, directs it to proper key or mouse class, and the appropriate changes of input are handed to Display and Player

Code screenshot: Observerable in action

```
public class InputListener implements KeyListener, MouseListener{
private Key left, right;
private Mouse mouse:
public class Key extends Observable {
    public boolean pressed = false;
    public char letter;
    public Key(char l) {
        this.letter = 1:
    public void toggle(boolean isPressed){
        String response[] = new String[3];
        pressed = isPressed;
        response[0] = "k";
        if (pressed) {
            response[1] = "t":
        } else {
            response[1] = "f";
        response[2] = Character.toString(letter);
        setChanged():
        notifyObservers(response):
public class Mouse extends Observable{
    public Point point;
    public String name = "mouse";
    public void setPoint(Point p) {
        String response[] = new String[3];
        point = p;
        response[0] = "m";
        response[1] = Integer.toString(point.x);
        response[2] = Integer.toString(point.v):
        setChanged();
        notifyObservers(response);
```

Why We Did It and What We Learned

- None of us had ever made a game before
- We all like games
- Wanted to see what went into making a simple game

- We learned making a game requires a lot of moving parts
- Not necessarily as simple as we initially thought
 - Animations are tricky

Questions?

Code available at: https://github.com/Brefew/csci4448_Project