

Pseudocode:

Initialise a clock;

Subtract x and y vector of drag position from bird origin to get distance;

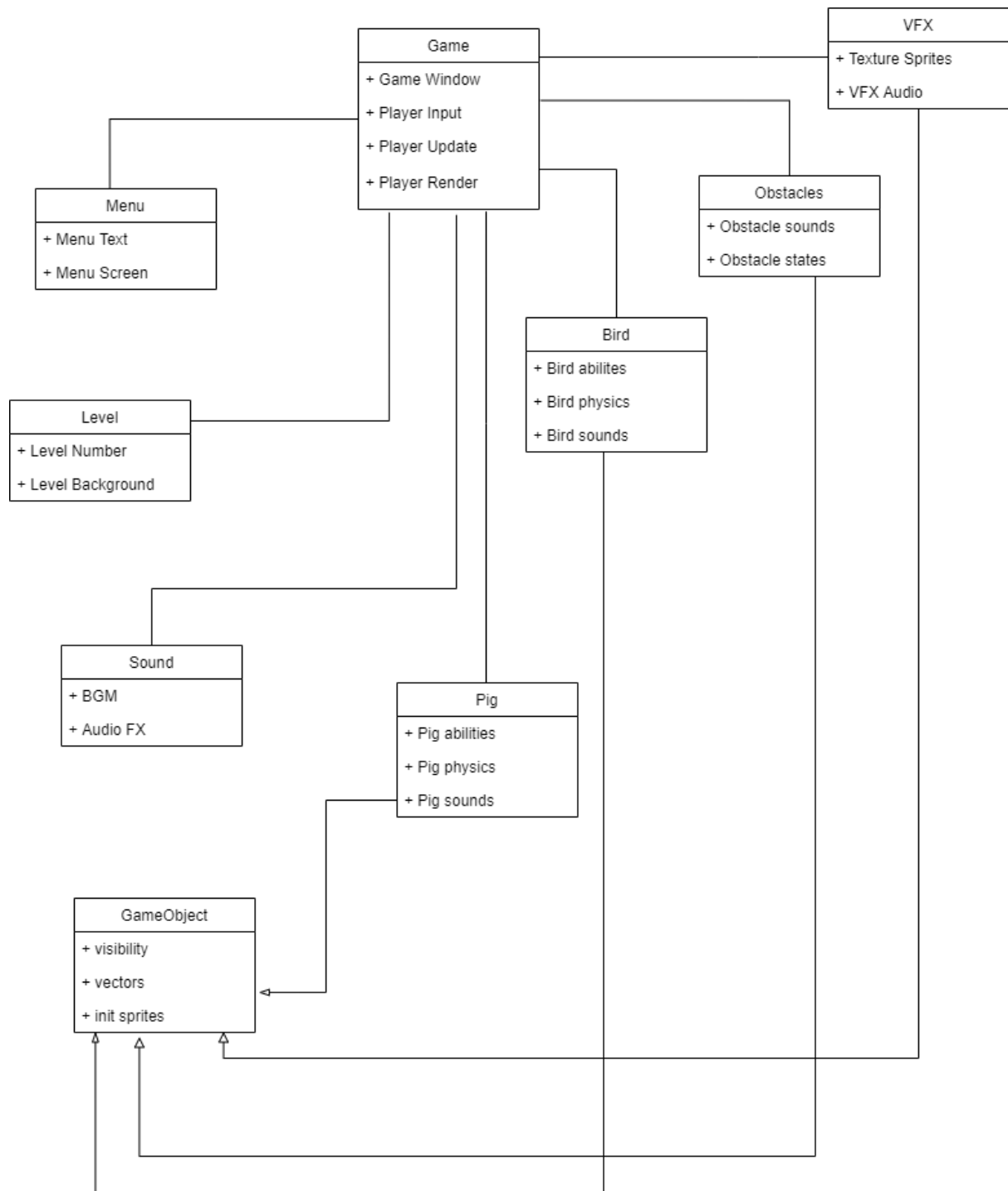
Normalise the vector;

Start clock counting once bird is released (release mouse click);

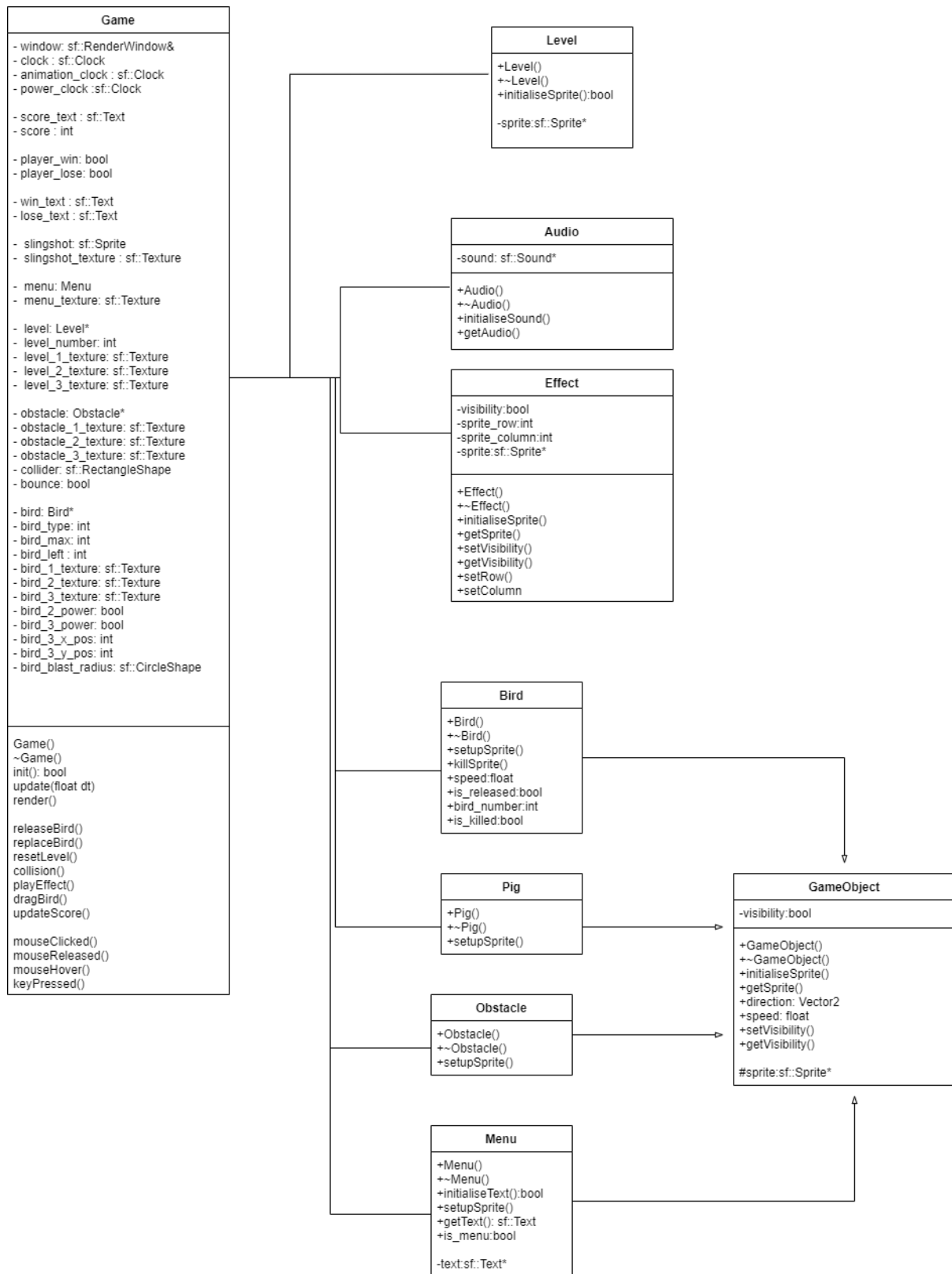
Move the bird.x in the normalised vector's direction * speed * dt;

Move the bird.y in the (normalised vector's direction + clock.asSeconds) * speed * dt;

UML Before:



UML After:



Discussion:

- More detailed classes and attributes.
- All sound effects are in one place instead of in different classes.
- BGM is in main game class instead.
- Menu interactables are in main game class.
- Effects do not inherit GameObject.