Object Oriented Programing Term Project Proposal

Game Name: Fish Eaters

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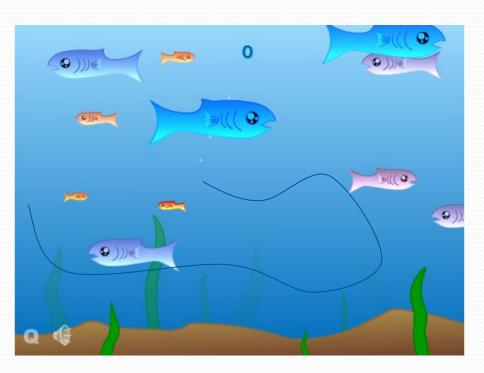
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About Game

Introduction of basic concept of the game and some rules.

Basic Concept of the Game

Game Name: Fish eaters



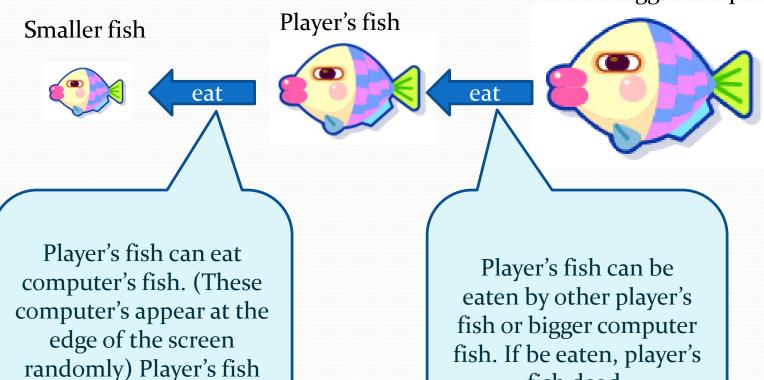
- Player s should move fish with keyboard to eat smaller fish.
- The fish grows up by eating other fishes. If the fish grow up, it can eat bigger fish.
- Two players may compete to eat more fishes, and to eat competitor's fish.
- Computer fishes appears randomly at edge of the screen
- If, eat competitor's fish, win.
- 2 player game.

Basic rule of the game

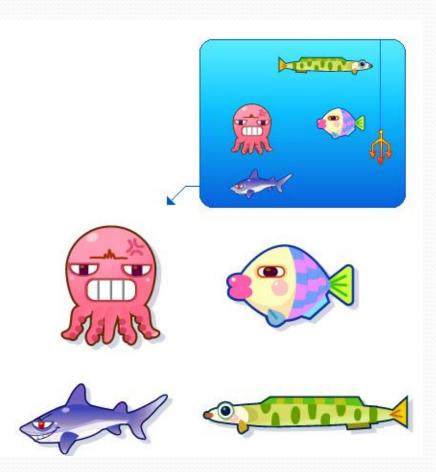
grow by eat fishes.

Other player's fish or bigger computer's fish

fish dead.



Other rules of the game.



- The fish has three or more chance to revive.
- To use special ability, the fish have to gather some energy which recover time by time.
- The player whose fish other player's fish or survive more time than other is winner.
- Computer's fishes appear randomly at the edge of the game screen. (many many)

Some danger things to fishes



- The hook: if the fish eat it, fish will die.
- The shark is strongest fish in the sea world, so player's fish can't eat shark.
- Some other elements can be add to the game in developing time.

Various kind of fishes



Players can choose fish.

- Players can choose the fish from 6 or more kind of fishes.
- Each fish has unique ability and some special features.
 (ex : fast speed, hide in shield, decoy fishes and so on)
- Fish should gather energy to use ability.

Some Characteristic of fishes



Fish Name: Turtle

- Speed : slow
- Acceleration : Bad
- Special Ability: Hide in urtleback (Safe)



Fish Name: Swell Fish

- Speed : Normal
- Acceleration : Normal
- Special Ability : Light

Class Design

Simple class diagram.

Class design of the game

- Object oriented programming style uses class and make instance of class to solve problems.
- Designing class is one of the most importance things in developing program by object oriented programming style.
- Class design: inheritance and by using polymorphism.
- Structure of classes in the program can be express with UML.

Fish classes

- There are various kind of fishes that player can select before game start.
- Each kind of fishes have general characteristic(move, eat and so on) and specialty(special ability).
- So, we have to make class of each kind of fish.
- Each kind of fish class inherits super class of fish classes.

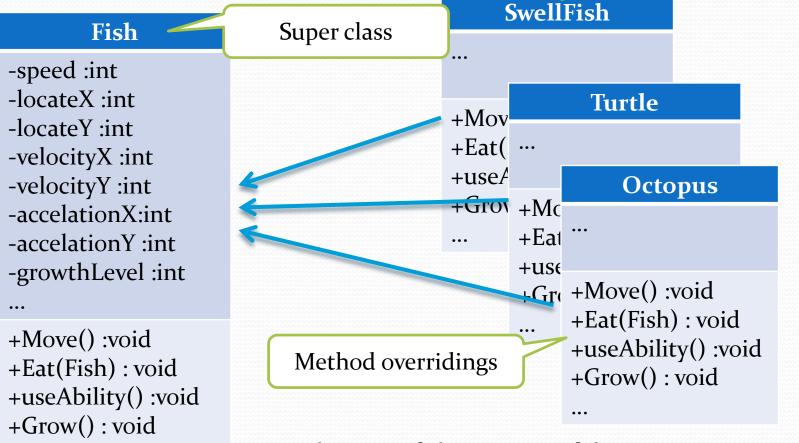






Fish class design

Sub classes



Simplication of class Design of the game Subclasses will be more(about 6 or more).

Advantage of inheritance?

- We can use polymorphism by method overriding.
- Polymorphism provide us critical advantage of code recycling and flexibility of the code.





End of Proposal Thank you!

