Minmum Viable Product Framework

Idea: Once we build this or a similar adaptable framework, we can add features.

Player Objective: Make as much money as possible. When you catch a fish, you sell it for money. When you have enough money, you can buy better supplies, allowing you to catch fish quicker and earn more money faster.

Package Name: catchgame

Catch

- +AuthenticateUser()
- + start()
- + main(String[] args)

Player

- String password
- + getUserName(): String
- + getCashOnHand(): double
- + getIceChest(): ArrayList<SeaCreature>

DAO

+ getPlayer(String userName, String password): Player

GameControl

- DAO
- GamePane
- Player
- catchFishFromWild(ArrayList caughtFish, ArrayList wildPopulation)
- sellFish(ArrayList caughtFish): double
- CatchFishHandler **implements** EventHandler<ActionEvent>
- SellFishHandler **implements** EventHandler<ActionEvent>
- SaveGameHandler implements EventHandler<ActionEvent>

Package Name: resouces

< <enum< th=""><th></th><th></th></enum<>		
COD SALMO)N	

Fish

+ getWeight(): double
+ getSpecies(): FishSpecies

<<Enum>>
BoatTypes

ROW_BOAT
FISHING SKIFF

Boat

+ getNumberOfNets(): int + getType(): BoatTypes

Ocean

+ getCodPopulation(): ArrayList<Fish>

+ getSalmonPopulation(): ArrayList<Salmon>

Market<T>

- + setName()
- + getName()
- + getCurrentPrice(T): double
- + sellItems(ArrayList<T>) double

Market <seacreatures></seacreatures>	

Market<Boats>

+ BuyBoat(double): Boat

Ocean

- + getCodPopulation(): ArrayList<Fish>
- + getSalmonPopulation(): ArrayList<Salmon>

Package Name: userinterface

GamePane

- + setCashOnHandText
- Button btnCatchFish
- Button btnSellFish

NewGamePane

- + TextField
- + PasswordField