Class Diagram

Wealth

costPirateCoins{>=100}

Map

graphic
isTrue

Investment

companyName
fiveYearProfit

Savings account

Treasure

numberOfChests
valuables[]{nullable}

Safekeeping

dateStart
dateEnd{nullable}

3...5

1

0...*

0...*

0...*

1

1

1

1

Total value of nomore than 10% (this value may change in the future) of all total Wealth.

Info is kept for two years after dateEnd

Island

name
area
location
additionalDescription{nullable}

setAdditionalDescription()

1

<<is overseen>>

Pirate Crew

name
sumOfSalaries

calculateSumSalAndBon()

1

2...*

pirateToCrew

job

1...*

1

Pirate

name
nickname
salary
status{working, on vacation, on sick leave}

calculateMonthlyBonus()

1

overlapping

Retirement Fund Manager

findTopTenTreasures()
findTopTenCrews()
planTreasure()

Manager

numberOfCoursesFinished[]
bonusFunction

Enforcer

numberOfDuelsWon
bonusFunction

Use Case

Investment Tracking

Pirate

calculate sum of salary and bonuses for self

Crew Leader

calculate sum of salary and bonuses for all in crew

Retirement Fund Manager

Find 10 most valuable treasures

Find 10 most paid crews

Plan hiding treasure

<<include>>

Enter info about treasure

Enter info about maps

<<extend>>

Assign maps for safekeeping

Activity

Enter info about treasure and maps

Assign maps?

yes

Assign maps for safekeeping

no