## Ship

- -name:String
- -crew:int
- -cargoSize:int
- -currentCargo:int
- -maxHp:int
- -resistance:int
- -sailSpeed:int
- +getAttribute():type
- +setAttribute(type)
- +addAttribute(int)
- +displayShip()

# Upgrade

- -description:String
- -cost:int
- -upgradeType:int
- +getAttribute():type
- +setAttribute(type)

#### RandomEncounter

- -name:String
- -description:String
- -chance:int
- -stealAmount:int
- -damage:int
- -reward:int
- -delay:int

# +getAttribute():type

## Island

- -name:String
- -store:Store
- -routes:ArrayList<Route>
- +getAttribute():type
- +setAttribute(type)
- +visitStore():Store
- +takeRoute(int):Route

### Route

- -description:String Describe the route? Put the info below into words?
- -days:int
- -risk:int
- -islands:ArrayList<Island>
- +getAttribute():type
- +setAttribute(type)
- +createPossibleRandomEncounter

# Item name Quantity Base Price Cargo status Island bought

### Store

- -buyableItems:Arraylist<Item>
- -sellableItems:Arraylist<Item>
- -purchasedItems:Arraylist<Item>
- -expensiveItems:Arraylist<Item>
- -cheapItems:Arraylist<Item>
- -upgrades:ArrayList<Upgrade>
- +setBuyableItems(ArrayList<Item>):
- +buyItem(int):Item
- +sellItem(int):
- +viewBuyableItems():Arraylist<Items>
- +viewSellableItems():Arravlist<Items>
- +viewPurchasedGoods():Arravlist<Items>
- +leaveStore():Island

### Item

- -name:String
- -description:String
- -size:Int
- -price:Int
- -hasSold:bool
- -soldPrice:int
- -soldIsland:Island
- +getAttribute():type
- +setAttribute(type)

### Command Line UI

- +invalidInput()
- +askName():String
- +askDays():int
- +askShip():Ship
- +displayIsland(Island):int
- +displayShop(Shop):int
- +displayUpgrade(ArrayList<Upgrade>)
- +displayBuv(ArrayList<Item>)

### Global Variables

repairCost:int startingGold:int scoreWeights:int costPerCrewday:int favouredMult:int=1.5 unfavouredMult:int=0.5

# GameEvironement

- -characterName:String
- -possibleShips:ArrayList<Ship>
- -currentShip:Ship
- -possibleIslands:ArrayList<Island>
- -currentIsland:Island
- -currentGold:int = StartingCash
- -inventory:HashMap<Item, int>
- -daysLeft:int
- -currentHp:int
- -upgrades: ArrayList<Upgrade>
- -characterName

Bruh the title of this class is spelt wrong and I had no idea this whole time

- +getAttribute():type
- +setAttribute(type)
- +takeDamage(int)
- +repair(int)
- +isAlive():boolean

+getAttribute():type +setAttribute(type)

- +displayShop(Shop).int +displayUpgrade(ArrayList<Upgrade>)

- +displayBuy(ArrayList<Item>) +displaySell(ArrayList<Item>) +displayRoutes(ArrayList<Route>)
- +displayRoute(Route)
  +displayRandomEcounter(RandomE)
  +displayEnd()
- +viewInventory() +main()