### - find nouns:

system
Attendance
Record
product
prices
artisan
month
Daily
Inventory
Report

Efficiency

Sale Type

Market

Variant

time

List

Lack

Update

Drawback

user

quantity

management

penalty

inventory

allocation

# - List Possible Objects/Classes

Artisan
Product
Attendance
SalesReport
Inventory
MonthlyReport
DailyRepot
User

# - Find attributes for every class

### Artisan

age

id

name

attendance

product

address

contact

-number

<del>email</del>

number

products sold

### Product

name
unitPrice
stock
owner
quantity
initial
currenStock
description
materials

### Attendance

date
arrivalTime
departureTime
username
present

### SalesReport

productName totalSales unitPrice averageDaily productsSold artisanName date

# Inventory

product
initialStock
currentStok
bestSellingProduct
outOfStockProducts
lastUpdateDate
associatedArtisan

# monthlyReport

month
sales
totalSalesAmount
totalProductsSold
timesFined
absences
artisanSalesSummay

## dailyReport

date
totalIncome
totalSales

#### User

user password

- Find actions/methods for every class

### Artisan

```
registerproduct()
registerSale()
- updatePersonalInformation()
- reviewAttendanceHistory()
- generatePerformanceReport()
calculateTotalSales()
```

#### Product

```
productDetails()
deleteProduct()
updateQuantity()
CalculateTotalPrice
addProduct()
editProduct()
searchProductByName()
filterProductsByCategory()
name()
unitPrice()
stock()
owner()
updateStock()
```

#### Attendance

```
calculatePenalty()
recordArrival()
recordDeparture()
username()
localDate()
present()
```

# SalesReport

calculateTotalSales()
calculateAverageDaily()
quantity()
date()

# Inventory

updateStock()
addProduct()
deleteProduct()
checkOutStockProduct()
generateInventorySummary()
allProducts()
productByArtisan()
findBestSellingProuct()

# *MonthlyReport*

findBestSellingProduct()
calculateTotalSales()
calculateProductsSold()
generateArtisanSummary()
printMonthlySummary()

# DailyReport

date()
calculateTotalIncome()
countTotalSales()
addSale()

#### User

User()
setUser(String user)
password()
password(String password)
artisan()

# Abstract

# Encapsulation

#### Artisan

- id: int - name: string - products: string

+ registerSale(): string

+ calculateTotalSales():float

### Product

-name: string -unitPrice: float -currentStock: int -owner: string

- id: int

+calculateTotalPrice():float

+addProduct():void +daleteProduct():void +editProduct():void +productDetails(): string

+owner(owner):string

#### Attendance

- locaDate:Date - present: Boolean - username: string

+ calculatePenalty():float + recordDanceRecord():void

# SalesReport

- productName: String - unitPrice: float - quantity: int - total: float - date: date

- artisanName:string

+ calculateTotalSales():float

+ calculateAverageDaily():float

# monthlyReport

- month: string
- + calculateTotalSale: float
  + printMonthlySummary: string

# Inventory

- product(list): string
- currentStock: int
- associatedArtisan: string
- + openProducts():string
- + generalInventory():string
- + personalInventory:string

# DailyReport

- date: string
   day: string
- +calculateTotalIncome():float
- +countTotalSales():float

### User

- user: stringpassword: stringattendance: []
- + user(user: String ,password: string ,Artisan artisan)