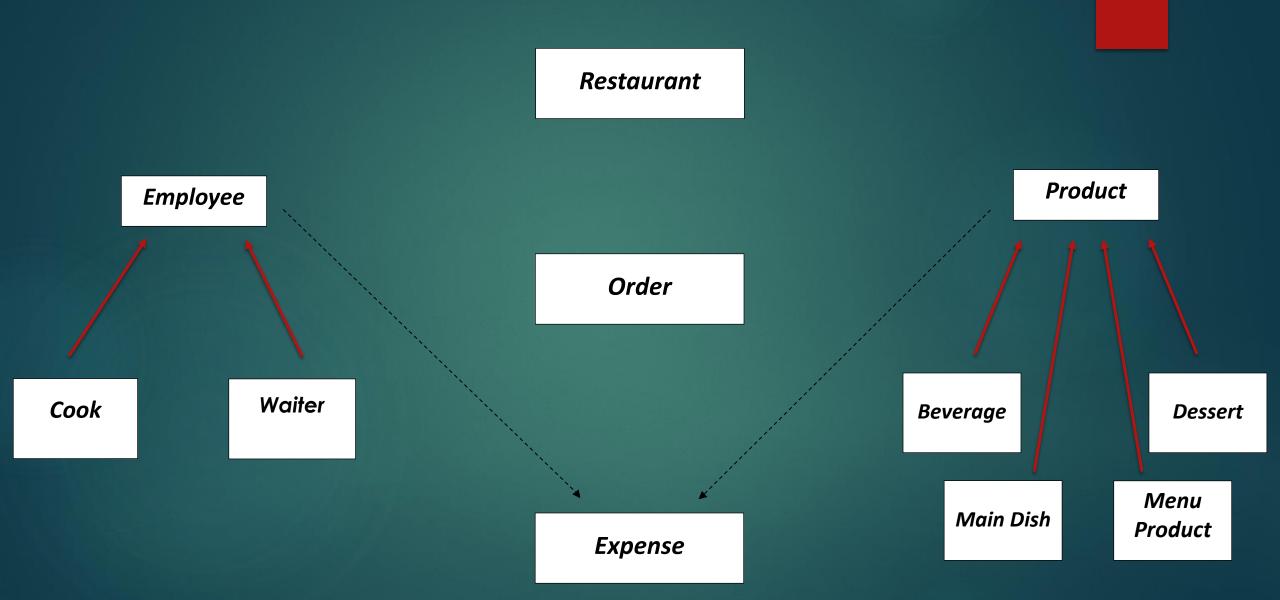
# RestaurantApplication-V2

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# CLASS HIERARCHY



# **UML** Diagram

### **Employee**

- ID : int
- Name: String
- + Employee(int,String)
- + getID(): int

Restaurant

- employees:ArrayList<Employee>

- products: ArrayList<Employee>

= new ArrayList<>()

= new ArrayList<>()

- employeesID: int

- initEmployees(): void

+ listEmployees(): void

+ addCook(String,double):void

+ addWaiter(String) : void

+ CalculateExpenses():double + CalculateRevenue():double

+ getProducts(): ArrayList<Product>

+ assignWaiter(): Waiter

- initProducts(): void

+ Restaurant()

- + getName(): String
- + toString(): String

#### Expense

+ CalculateExpense():double

#### **Product**

- Name : String
- PurchasePrice : double
- SellingPrice : double
- UtilityCost : double
- + Product(String,double,double,double)
- + Product(String)
- + getName(): String
- + setName(String): void
- + getPurchasePrice(): double
- + getSellingPrice(): double
- + setSellingPrice(double): void
- + getUtilityCost(): double
- + toString(): String

# Cook

- Salary : double
- TaxRate : double
- + Cook(int,String,double)
- + getSalary() : double
- + getTaxRate() : double
- + CalculateExpense(): double

Waiter

+ CalculateExpense():double

+ CreateOrder(Order): void

+ getOrdersReceived():

- OrderRate : double

- OrdersReceived:

ArrayList<Order>

+ Waiter(int, String)

ArrayList<Order>

+ Dessert (String, double, double, double)

+ CalculateExpense(): double

### Dessert

- products: ArrayList<Product> = new ArrayList<>()

+ MenuProduct (String, ArrayList < Product > )

MenuProduct

- + CalculateExpense(): double
- + CalculateSellingPrice(): double

#### Order

- products:
- ArrayList<Product>=new ArrayList<>()
- + Order()
- + addProduct(Product):void
- + listOrder(): void
- + CalculateTotalPrice():double
- + getOrderedProducts():

ArrayList<Product>

# Beverage

- + Beverage (String, double, double, double)
- + CalculateExpense(): double

#### MainDish

+ MainDish (String, double, double, double) + CalculateExpense(): double

