

**HACETTEPE UNIVERSITY DEPARTMENT OF  
COMPUTER ENGINEERING BBM104**



**ASSIGNMENT-3**

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Subject: Introduction to Programming II

Programming Language: Java

## 1. Identification of Problem/Purpose of the software:

Assignment 3 wants us to design a Pizza Restaurant automation. We have 3 input files. There are

- Customer.txt (There are a lot of people and Their's personal information (orderid, name, surname etc.))
- Order.txt (In file there are various pizza order.)
- input.txt (There are activities in the file)

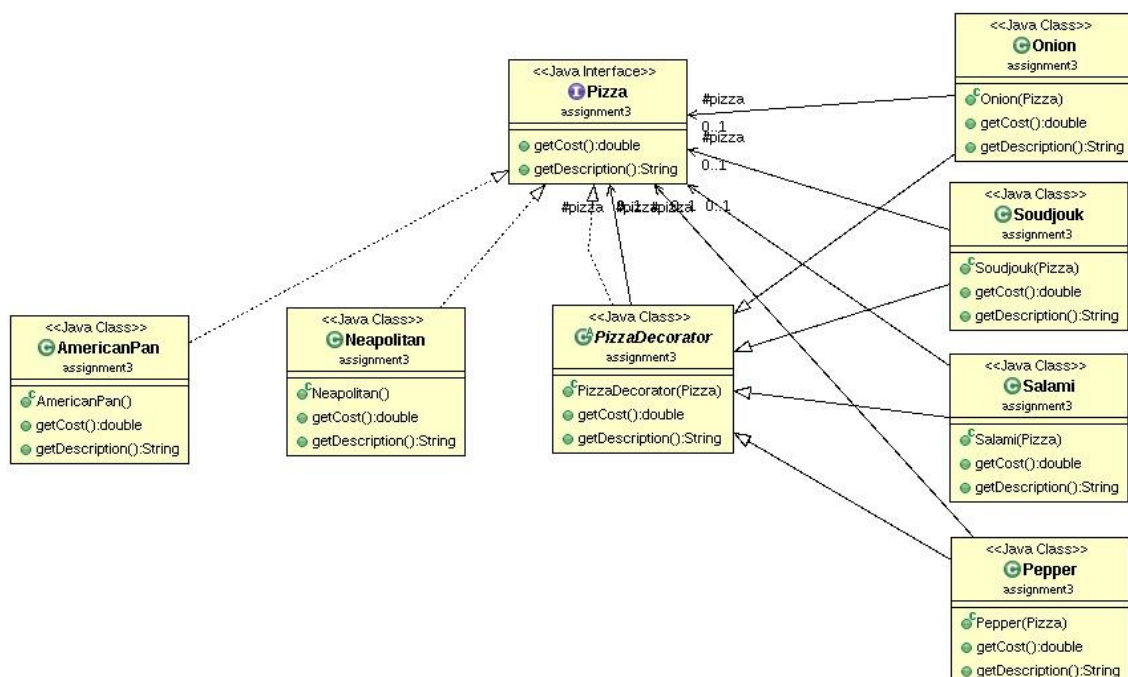
Our aim is to get pizza orders and keep them in accordance with the instructions.

There are many issues that need to be well known. Like;

- Java Class
- Inheritance
- Abstract Classes
- Interface
- Decorator Design Pattern
- Data access object
- Java/ File Input /output

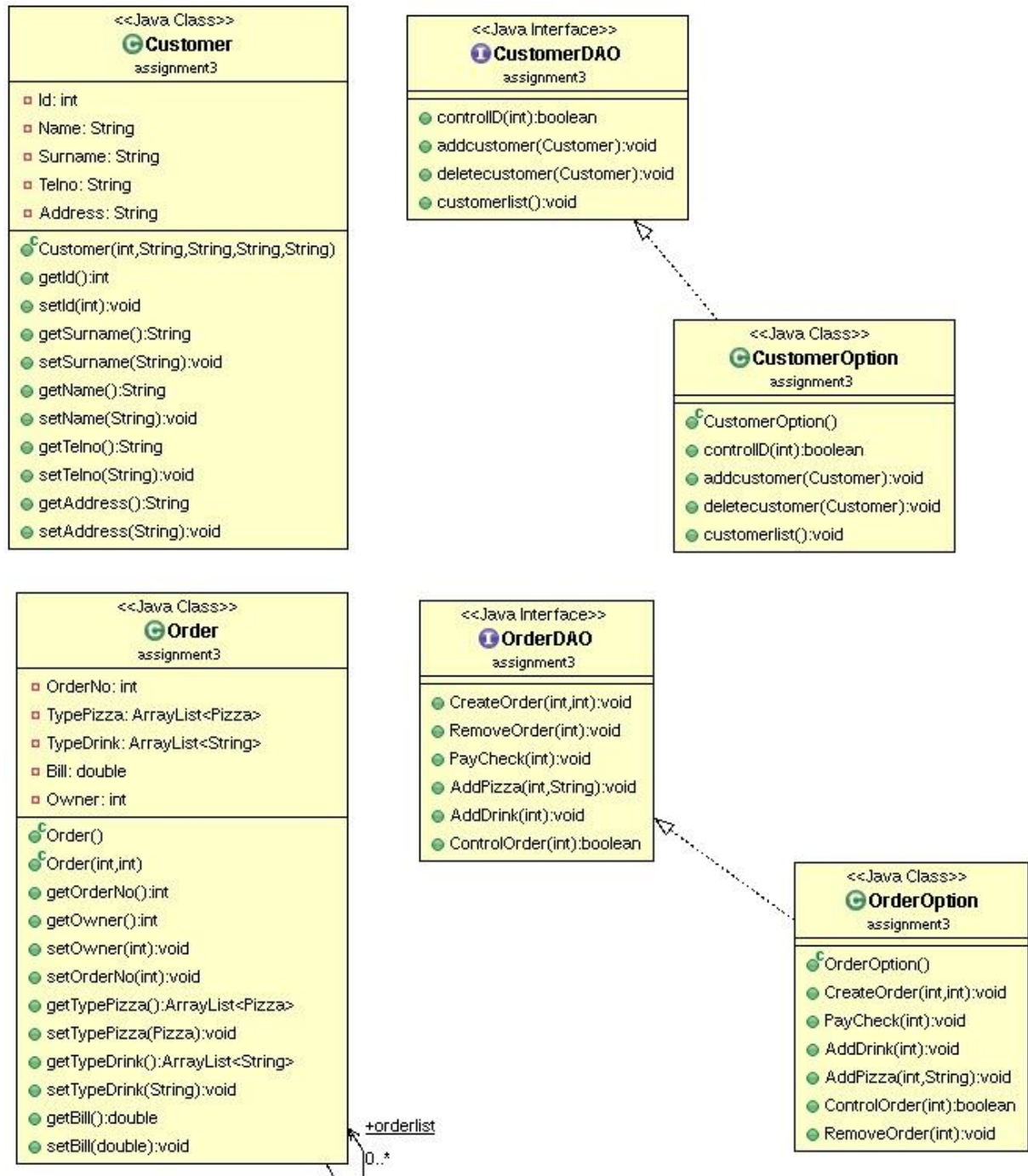
## 2. Problems and Solutions:

- **Decorator Design Pattern:** Decorator pattern allows a user to add new functionality to an existing object without altering its structure. This type of design pattern comes under structural pattern as this pattern acts as a wrapper to existing class



- **Data Access Object:**

The Data Access Object is basically an object or an interface that provides access to an underlying database or any other persistence storage.



### 3. IMPORTANT PARTS:

```
javac Main.java
```

```
java Main input.txt customer.txt order.txt
```

- **INPUT**

*The paths of the input files will be provided as command line arguments in the order of*

**<input.txt><customer.txt><order.txt>**

- **OUTPUT**

The program automatically creates the output file **<output.txt>**

- **EXTRAS**

Program supports 3 options:

1- There are text files (customer.txt order.txt) in your working directory (the files are attached this post) and when your program starts you will read these files then update them according to input file.

2- There is no file in your working directory except from input.txt when your program starts, you will create 2 txt files (order and customer) and you will fill them according to input.txt

3- There is no file in your working directory, when your program starts you will create 2 list or array and fill them according to input file.

- **The program warns against extraordinary situations.**  
*examples*

>This customer is already registered.

>The order you want to add pizza is not registered on the system.

