# American International University- Bangladesh

## CSC 1205: Object Oriented Programming 1 (JAVA)

### CO4 Evaluation
### Project Concluding Report
### Spring 19-20

**Group ID: J15**
**Project Title: Food Court Management Application**

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# Food Court Management Application

**Introduction:**

*Why you are doing this project? (No more than 60 words)*

We have chosen this project, the 1st reason is 'Food Court management' is very phenomenon to all of us. We always visit many food court for enjoyment. So it seems very interesting to us. More we tried to make an application by which the customers and the management both will be benefited. Customers can get short technic to know the food items, restaurants and the prices. Besides management can record their whole sell, employee activity, customers' demand everything.

**Problem Analysis:**
*What kind of problem is being solved with this project? Who will use this application?*
*(No more than 60 words)*

We have solved FOOD COURT MANAGEMENT Project. The owner of the Food Court as well as the users can use this application. By using this application users can get the opportunity of knowing all the food items of the restaurant of their places. They can also know the price, how much quantity of this item available and so on. Besides, the owner of the food court will easily see the management system, the demand of the particular food item, orders. The owner can also give many facilities to the employees, appoint more employee and everything . So this application is usable both for users and the owner.

**UI Design Analysis:**
*How will the users interact with this application? How can it be improved?*
*(No more than 60 words)*

In this project, User can give input as their wish. So this project is more or less depends on the users. If user give some wrong input such as: if they give int input instead of character, then it will occurs input mismatch Exception. So, the users are directly interact with this project. To make more easy for the users we can improve this project.

**Logical Analysis:**
*How much logic has been applied in this application? Are the applied logics working properly? Is there any logical limitations?*
*(No more than 100 words)*

In this project there are some mathematical logic in the food item and foodcourt class which is around 5. When we want to find some employee or restaurant or FoodItem we use some logical things. IN our project all the logics are work properly. We tried to make a god logic and there is no limitation, we would like to solve it.

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**OOP Concept Analysis:**

*What are the OOP1 principles used in this project? How have been they applied? Explain the OOP concepts used in this application (No more than 3 sentences per concept)?*
*(No more than 160 words)*

OOP Principles are:
- Encapsulation
- Inheritance
- Polymorphism
- Abstraction

In this project we use all of them.

**Encapsulation:** We know that it is a mechanism of one attribute with a method. By using encapsulation an attribute cannot access directly. It can be accessed by using access modifiers. In every class we use access modifiers to connect the attributes with the method.

**Inheritance:** It is the mechanism of creating a new class from an existing class. So there is a one parent class and one child class. In our project we use inheritance in Class Appitizer and Class Main Dish.. They both are child class. Their Parent class is FOODITEM .

**Polymorphism:** In this project we can notice the polymorphic behavior of object. Also there is method overriding in Class FoodItem and Class Appitizer, Class MainDish.

**Abstraction:** In this project FoodItem is a abstract class. And abstract ShowInfo is abstract method.

**Impact of this Project:**

*What impact this project will have on the society and economy? How will people be benefitted from your project?*
(Maximum 80 words)

If this project is properly applied then Management system of food code is more easier. So the employees of this sector get more benefit. There is no chance to make mistake . If there will be a mistake or any mis understanding exception will be occurred . Moreover by using this project system Everything is recorded. Easily users as well as programmer can understand the total sell and added product of each restaurant. So, This project do a great impact on society and economy.

**Limitations and Possible Future Improvements:**
(Maximum 80 words)

Database and the graphical user interface are the limitation in this project. If we add database in our application then it manages data efficiency and allows users to perform multiple tasks and it stores organizes and manages a large amount

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of information within a single software application. If we add GUI in our application then the interaction between this project and user possible in easiest way.

So, we can say that if we can add these things for upgrade our app  then our application will be a perfect  app.

*[Note: Make sure that your report is maximum 3 pages (including cover page).]*

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