

**American International University- Bangladesh**

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

**CO4 Evaluation**

**Project Concluding Report**

**Spring 19-20**

**Group ID: J18**

**Project Title: Market Management Application**

|  |  |
| --- | --- |
| Student Name | Student Id |
| Atiqullah Habib | **19-40022-1** |
| Shariar Sijan Alvi | **19-40027-1** |

**Introduction:**

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

This is an application on market management. Here user can manage shops' details, employees' details products' details etc. This is like managing the whole market at one place just at your fingertips.

**Problem Analysis:**

*What kind of problem is being solved with this project? Who will use this application?*

*(No more than 60 words)*

This application is mainly for the owners. The owner can easily manage anything related to the market.

**UI Design Analysis:**

*How will the users interact with this application? How can it be improved?*

*(No more than 60 words)*

The UI design is console based and pretty user friendly. User just need to select the options as per their needs. Then they need to give necessary informations to get their desired result. The UI design can be improved more by creating an GUI based application.

**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)*

This application is using some simple but revolutionary logics. The users do not even need to think complexly. We have arranged all the suitable options altogether. The users just need to select as their needs. Everything is logically connected. If he can not even select the options properly, like he gives wrong input, we have handled that exception too. All segments are separated from. All things are at right place. Employee details, shop details, customer details, product details are enlisted here. But we have separated all these informations into four segments. Used abstraction, interface, files, logical statements, built-in keyword and many more to get things better. But there are some slight logical limitations.

**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)*

Encapsulation:

We have used set get method to access attributes. We have used this to avoid directly accessing the attributes and binded a attribute with a method.

Inheritance:

We have created objects for the existing classes to create the reusability of the program.

Polymorphism:

We have used this principle, overrided methods, used method overloading, constructor overloading. polymorphic behaviour of objects were also used.

Abstraction:

Used abstract class to avoid instantiation.

**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)

This application will make market management so facile. It will be a time saver because its not like the traditional market management system. This application will make the work effortless for the user. Everything can be managed at the same time and smoothly. This application keeps every single details in front of us and this process is quite secured.

**Limitations and Possible Future Improvements:**

(Maximum 80 words)

We have some limitations on exception handling. Also faced a issue that id is not unique here. We would like to update and fix these problems. Database should be used to avoid some issues and make this application more fluent. We are planning to update the UI design also and hoping to add more options that will make this application more user friendly.

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