

American International University- Bangladesh

CSC 2209: Object Oriented Programming 1 (JAVA)

CO1 Evaluation Project Summary Report Summer 18-19

Group No: K03

Project Title: BUSINESS TOOL

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Introduction:

Now a days it is very difficult to run a business without a software. What ever the business is, it requires to manage employees, manage products, manage inventories, manage sales and sales history, etc. Our project is on this field. Our project will help to manage employees, products, sales and sales history of a particular business.

User Category:

There are three types of Users here. They are:

- ADMIN
- MANAGER
- SALESMAN

Feature List:

In this project the "ADMIN" has the following features:

- Manage Employees List (Search, Insert, Update, Delete)
- Manage Products List (Search, Insert, Update, Delete)
- Explore Sells History (Search)
- Change Password

In this project the "MANAGER" has the following features:

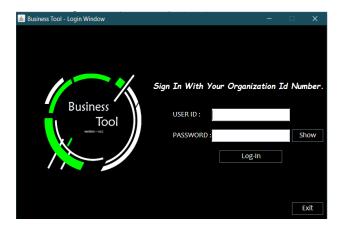
- Explore Employees List (Search)
- Manage Products List (Search, Insert, Update, Delete)
- Explore Sells History (Search)
- Change Password

In this project the "MANAGER" has the following features:

- Explore Employees List (Search)
- Explore Products List (Search)
- Sell Products (Insert)
- Change Password

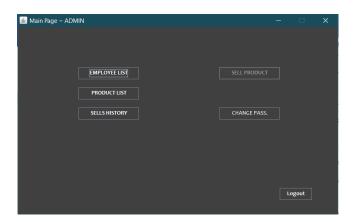
GUI Description:

LOGIN GUI:



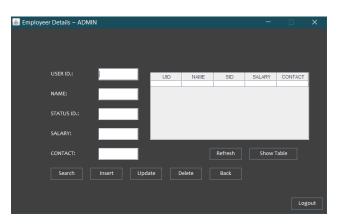
In Login frame all the employees will be able to login for their own account. By putting their Id and their password and by checking their accessibility they can login.

HOME GUI:



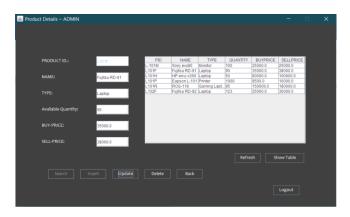
In main frame there are 5 Option. They are employee list, product list, sells history, sell product and password change. All the employees have the access to these option by their designation. And everyone can logout from that page.

EMPLOYEE DETAILS:



In Employee details every employee can check their details and they can update, delete and search their details. Only admin can insert a new employee to the database. Every employee can logout anytime from here.

PRODUCT LIST:



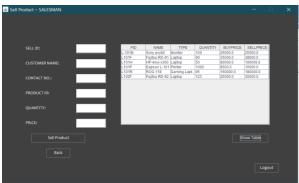
In Product details every employee can check the product details and they can update, delete and search product details. Every employee (ADMIN & MANAGER) can insert a new product to the database. Every employee can logout anytime from here.

SELLS HISTORY:



SELL PRODUCT:

In Sells history that will show the updated situation of all the product if sold. That will add how much quantity have been sold. And that will also show total amount of quantity sell. And only admin and manager have the access to Sells History.



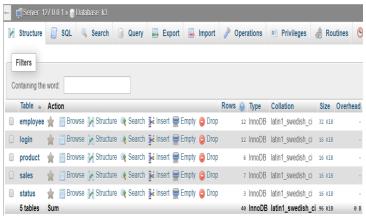
CHANGE PASSWORD:

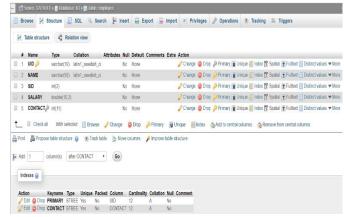


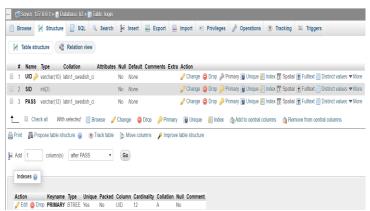
Only salesman can access to Sell Product to sell products. And all the sales and total calculated amount will be added to Sells History. For each sell, the quantity of each product will be updated.

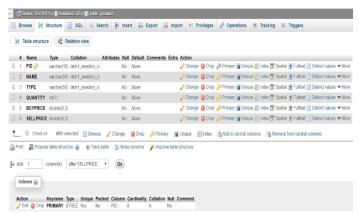
Every user can update or change their own password.

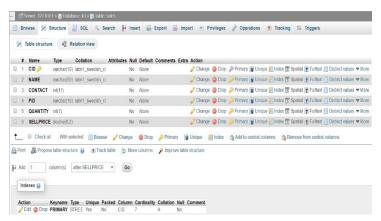
Database Table Description:





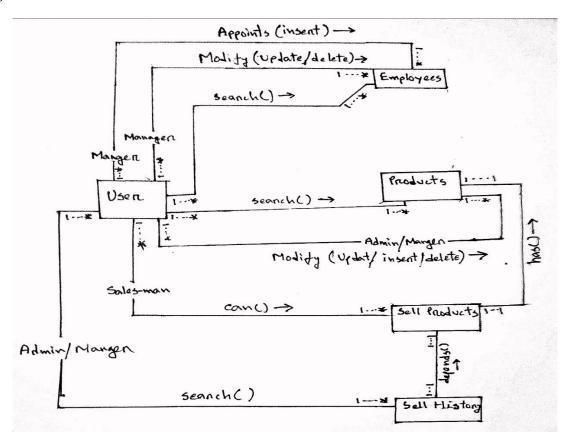








Class Diagram:



Tools Used:

To develop this project we have used the following:

- NOTEPAD ++
- JDK 8
- XAMPP v3.2.2
- PHOTOSHOP ILLUSTRATOR

OOP and Java Concepts Used:

- Abstraction: has been used on interface classes (interfaces folder). All the methods of that classes are abstract and has been over-ride in repository classes (repository folder).
- Inheritance: has been used in frame classes (GUI). All the frame classes (frames folder) inherits JFrame class.
- Polymorphisms: has been used on some interfaces (method over-loading). Methods of repository over-ride the methods of interfaces.
- Encapsulation: in entity classes each attribute has been bind with methods. So, in entity classes we have been used encapsulation.
- Array-List: Array-List has been used in searching products and employees.
- Interface: has been used in interface classes (like ILoginRepo, IEmployeeRepo, etc).
- Random Number: has been used to generate password for each user insertion.
- Association: has been used in entity classes.

Impact of this Project:

Now a days it is very difficult to run a business without a software. What ever the business is, it requires to manage employees, manage products, manage inventories, manage sales and sales history, etc. Our project is on this field. Our project will help to manage employees, products, sales and sales history of a particular business.

Limitations and Possible Future Improvements:

Our project is not perfect. As it can not calculates total profit of a business. If any one wants to work with our project they should work on those calculation parts.