**JDBC Assignment**

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**Description**

I have implemented Stock Management System, which is the practice of ordering, storing, tracking, and controlling inventory of different types of product, where the user store different types of product and order them. This system consists of 5 tables.

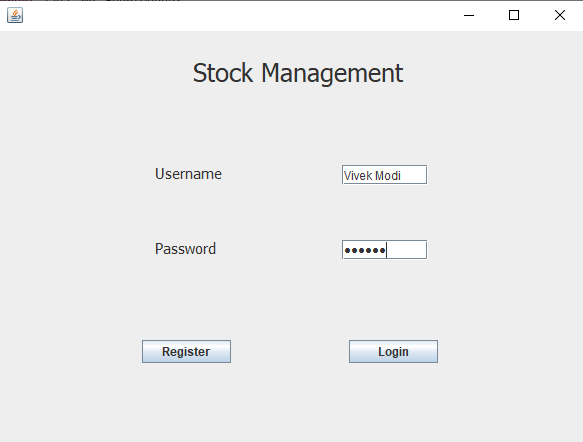
1. Customer
2. Login
3. Employee
4. Item
5. Order

I have used the following concepts of Database Management Systems.

1. Create
2. Insert
3. Update
4. Delete
5. Triggers
6. Joins
7. Store Procedures
8. Views

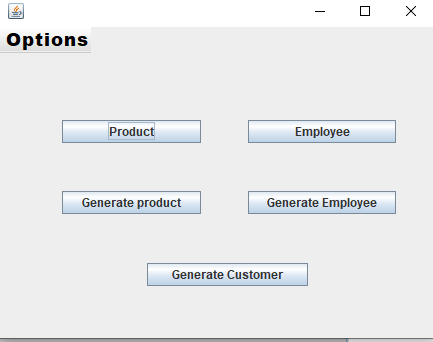
**Graphical View of Project**

1. **Login Page**



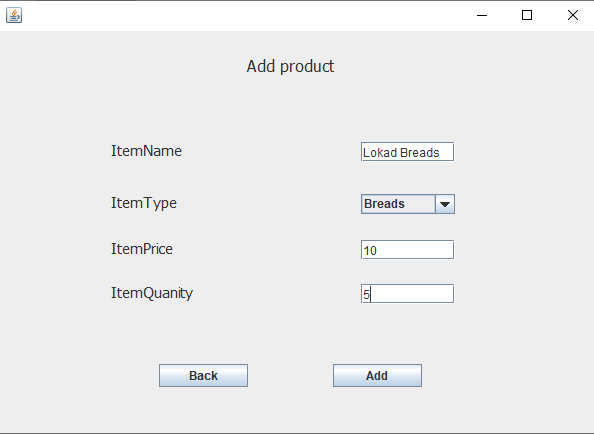
This is login page, in which we login as employee so we get all the functionalities of all system and if login as customer we only buy the product.

1. **Employee Screen**



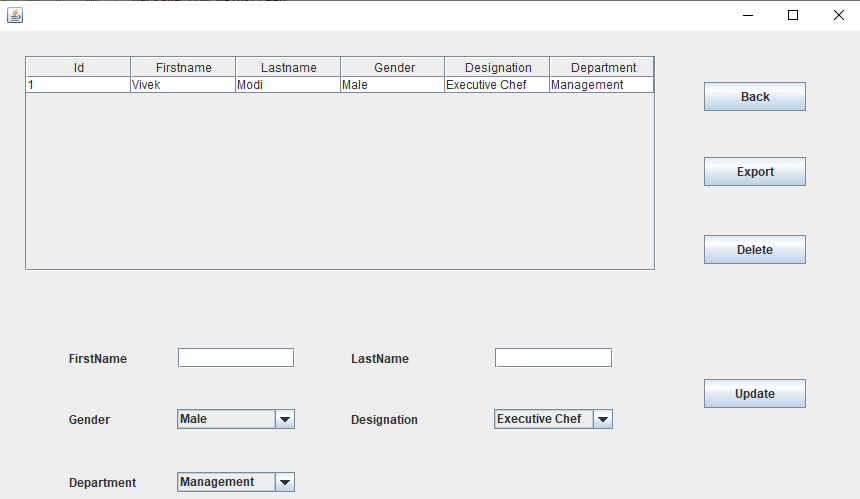
This is the main page of the application; it has 5 major functionalities needed for this project which are:

1. Product.
2. Employee.
3. Generate Product to csv file.
4. Generate Employee to csv file.
5. Generate Customer to csv file.
6. **Add product**



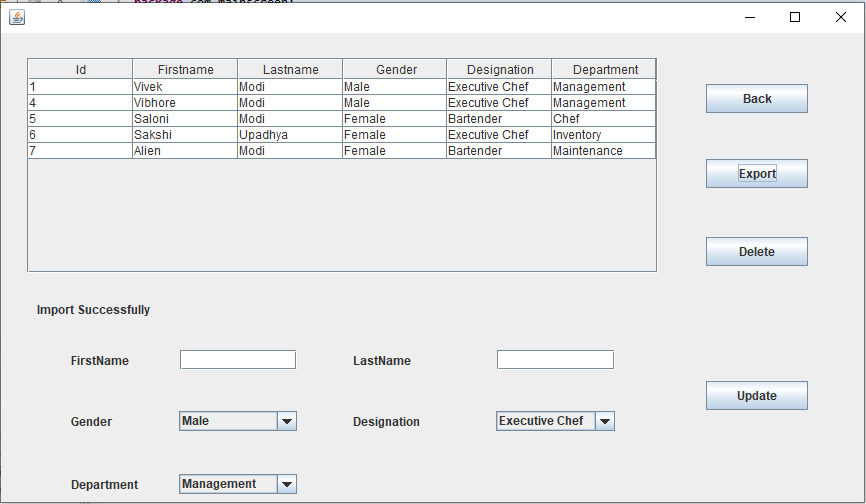
This page allows to add products in the system and add price and quantity to it.

1. **Generate Employee**

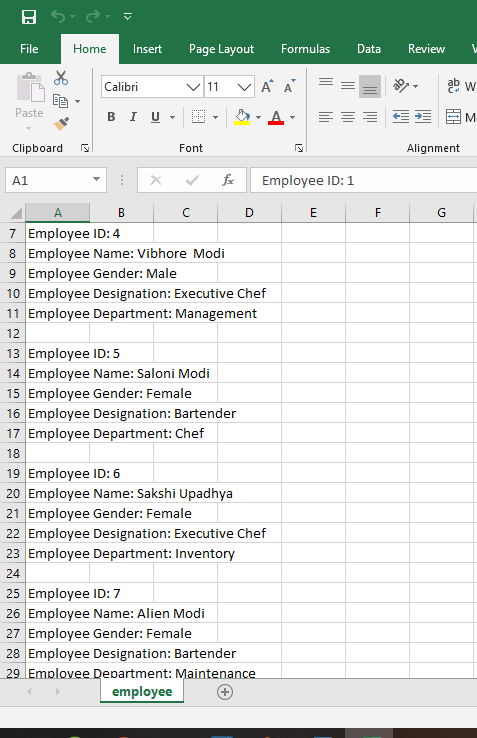


This page is useful in multiple way. First the Export Button with export all details of Employee into csv file. Second, we delete the employee details by clicking on jtable row and then press the button to delete the employee. Last and important is to update the employee details by clicking on jtable row and all details are automatically come in text field and combox then we update the employee details

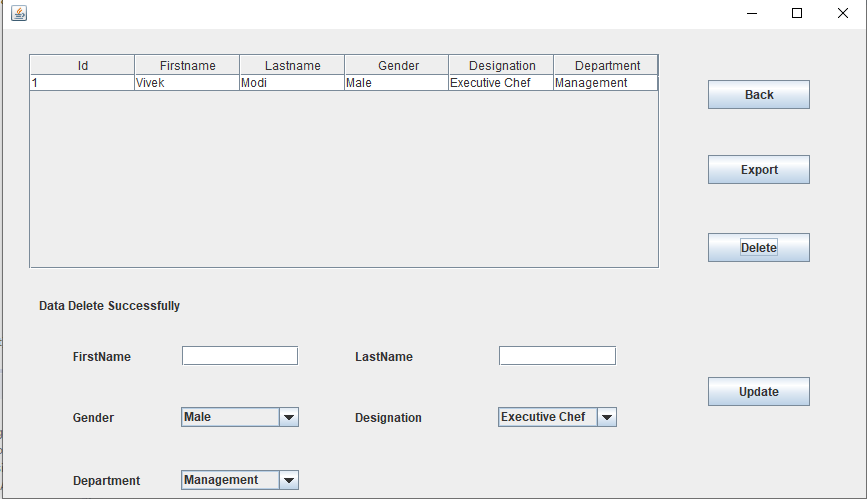
**First Image of Export into CSV File**

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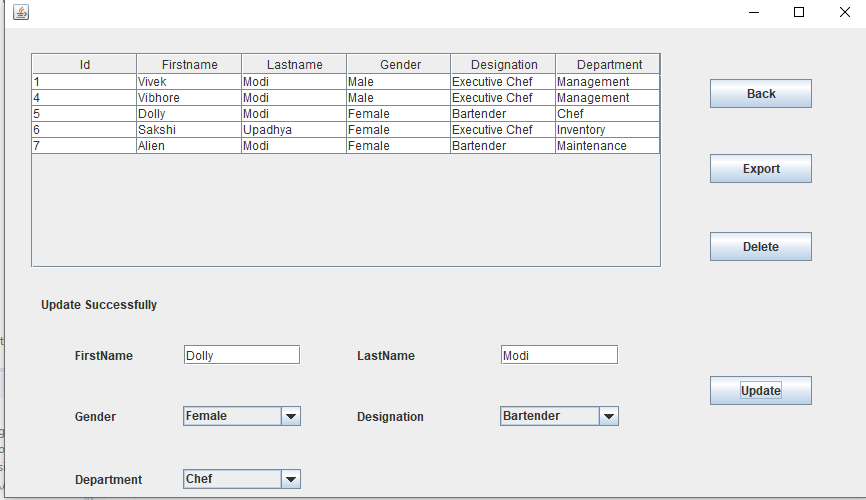
**Employee.csv**



**Second delete options**

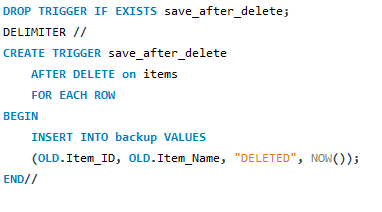


**Third to Update the employee details**



**Other Database Functionalities:**

1. **Triggers**: I created a delete trigger which saves the deleted items into a separate table for future reference and other triggers to convert entries into uppercase and trim the input

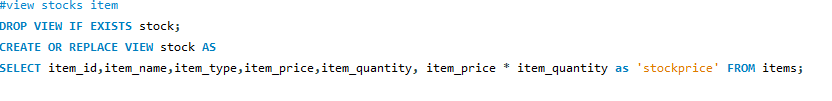


1. Stored Procedure: I created a store procedure to calculate the salary of an employee based upon the department and designation



1. **Views**:

I have used view to show the stock price.



**Conclusion**

With My application it will be easy to focus on stock and maintain the employees in an overall big system. I tried to create a small prototype of what a system could work around with different inventory rather than a dedicated system.

It was a good experience creating the project and going through all the aspects of database and connecting with java to create all aspects on an application. I learned about using stored procedures and making extensive use of views which would have been impossible without this project. I would like to work more on these technologies and will implement these learnings into future projects that I will work on.