Online Clothing Store

Elegant Shilouette

A PROJECT REPORT

Submitted by

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Under the guidance of

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BONAFIDE CERTIFICATE

Certified that this project report titled "**ONLINE CLOTHING STORE**" is the bonafide work of "**AAROH VERMA [RA1911033010084]**", who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does notform any other project report or dissertation on the basis of which a degree or awardwas conferred on an earlier occasion on this or any other candidate.

SIGNATURE

Dr. SasiRekha Sankar
Assistant Professor
Dept. of Computer Science & Engineering

Signature of the Internal Examiner

SIGNATURE

HEAD OF THE DEPARTMENT
CINTEL

Signature of the External Examiner

ACKNOWLEDGEMENTS

I would like to express my deepest gratitude to my guide, Dr. Sasi Rekha Sankar, her valuable guidance, consistent encouragement, personal caring, timely help and providing me with an excellent atmosphere for doing the project. All through the work, in spite of her busy schedule, she has ex- tended cheerful and cordial support to me for completing this project work.

AAROH VERMA

INTRODUCTION ABOUT THE PLATFORMS WORKED

1.1 MySQL

MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQLis developed, marketed and supported by MySQL AB, which is a Swedish company. MySQL is becoming so popular because of many good reasons:

- MySQL is released under an open-source license. So you have nothing to pay to use it.
- MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages.
- MySQL uses a standard form of the well-known SQL data language.
- MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.
- MySQL works very quickly and works well even with large data sets.
- MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system canhandle it) to a theoretical limit of 8 million terabytes (TB).
- MySQL is very friendly to PHP, the most appreciated language for web development.
- MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.

1.2 NETBEANS

- NetBeans is an integrated development environment (IDE) for Java.
- NetBeans allows applications to be developed from a set of modular software components called modules.
- NetBeans runs on Windows, macOS, Linux and Solaris.
- In addition to Java development, it has extensions for other languages like PHP, C, C++, HTML5, and JavaScript.
- Applications based on NetBeans, including the NetBeans IDE, can be extended by third party developers.

1.3 JAVA

- Java is a high-level, class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible.
- It is a general-purpose programming language intended to let programmers write once, run anywhere (WORA), meaning that compiled Java code can run on all platforms that support Java without the need to recompile.
- Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of the underlying computer architecture.
- The syntax of Java is similar to C and C++, but has fewer low-level facilities than either of them.
- The Java runtime provides dynamic capabilities (such as reflection and runtime code modification) that are typically not available in traditional compiled languages.

1.4 JDBC

- Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database.
- It is a Java-based data access technology used for Java database connectivity.
- It is part of the Java Standard Edition platform, from Oracle Corporation.
- It provides methods to query and update data in a database, and is oriented toward relational databases.
- A JDBC-to-ODBC bridge enables connections to any ODBC-accessible data source in the Java virtual machine (JVM) host environment.

TOOLS USED

2.1 XAMPP

- **Apache** : (Application Server) The Apache Software Foundation developed Apache, also known as Server, which is an opensource Java Servlet Container.
- **MySQL Server** : It is significantly quicker than previous methods of handling big databases. It comprises a multi-threaded SQL server that supports a variety of back ends, as well as a variety of client applications and libraries, administrative tools, and application programming interfaces (APIs). MySQL Server is well-suited for accessing databases via the Internet due to its connection, speed, and security.

2.2 NETBEANS

The IDE provides comprehensive support for JDK 7 technologies and the most recent Java enhancements. It is the first IDE that provides support for JDK 7, Java EE 7, and JavaFX 2. The IDE fully supports Java EE using the latest standards for Java, XML, Web services, and SQL and fully supports the GlassFish Server, the reference implementation of Java EE.

ABSTRACT

Now a days the life style of the people is different. People feel uncomfortable and time consuming for going crowded markets. So, E-Shopping is a boon as it saves a lot of time. Online shopping is a process whereby consumers directly buy goods, services etc. from a seller without an intermediary service over the Internet. Shoppers can visit web stores from the comfort of their house and shop as by sitting in front of the computer.

Online stores are usually available 24 hours a day and many consumers have internet access both at work and at home. So it is very convenient for them to shop Online. One of the most fascinating factors about online shopping, particularly during holiday season is, it does not require the need to wait in long lines or search from a store for a particular item.

Online shopping store contains a wide variety of high quality products with just a click with the use of a database system. And your information will be saved and reusable the next time you login so you don't have to enter your information again and again.

The main emphasis lies in providing a userfriendly search engine for effectively showing the desired results and its drag and drop behavior.

CHAPTER 3

INTRODUCTION

Applications

There are two types of accounts: Administrator and Customer.

Features for the Administrator:

- Add/Update Product Details by accessing them category-wise.
- Add/Update Category Details
- Add/Update Customer Details
- Stock Maintenance by having a look at the depleted stocks and so forth.
- View all the transactions taken place in a specified time period.
- Add a new transaction to the system as it happens offline and store the payment details accordingly.
- Generate a bill for any past transaction using its unique TransactionID if required.
- Update delivery address.
- Register/Update user information.
- Access all user information.

Features for the customer:

- View all the transactions done by the logged-in customer for a specified time period.
- Search through the available products category-wise.
- Generate bills for any previous transaction done by the customer.
- Bought products delivered to the registered customer address.
- View/edit cart items.

OBJECTIVE/GOALS

Shopping has long been considered a recreational activity by many. Shopping online is no exception. The goal of this application is to develop a software based interface for online clothing stores. The system would be easy to use and hence make the shopping experience pleasant for the users. The goal of this application is -

- To develop an easy to use web based interface where users can search for products, view a complete description of the products and order the products.
- A search engine that provides an easy and convenient way to search for products specific to their needs. The search engine would list a set of products based on the search term and the user can further filter the list based on various parameters.
- Provide a What You See Is What You Get (WYSWYG) software for cloths and related images.
- A user can view the complete specification of the product along with various images.

METHODOLOGY

The database was designed on MySQL, the back end and front end both were designed on Netbeans JAVA. Starting the software, user will be landing on a login page. They have to login to use the store, if they don't have a login, they can register from the register page.

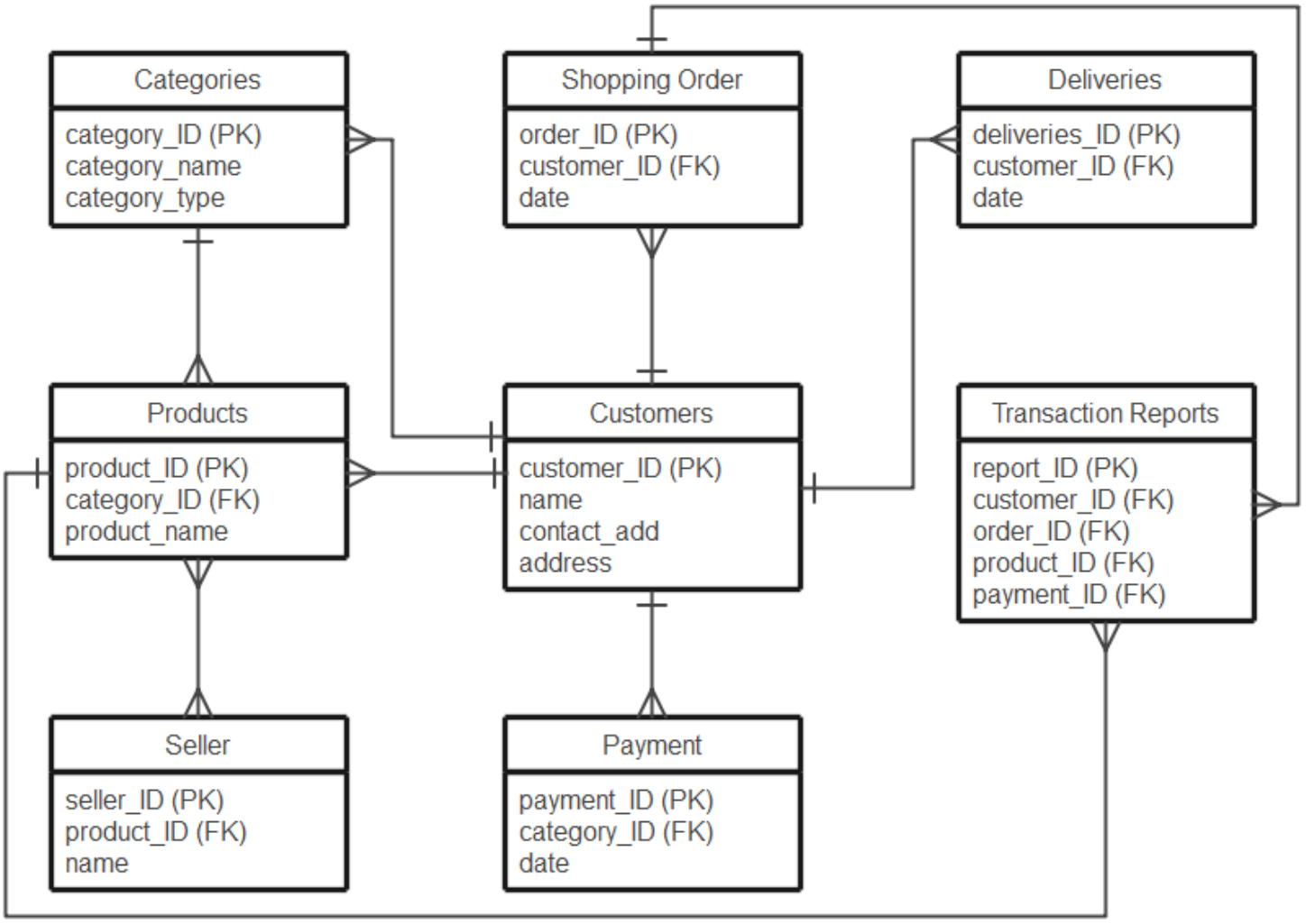
Menu provides 2 main categories- Mens Wear and Womens Wear.

After exploring the category, the user can add or remove their favourite product from the cart and then proceed to checkout. Checkout will provide a Cart which will give the final information of the total items user put into their cart and the Amount button will give the total amount the user has to pay.

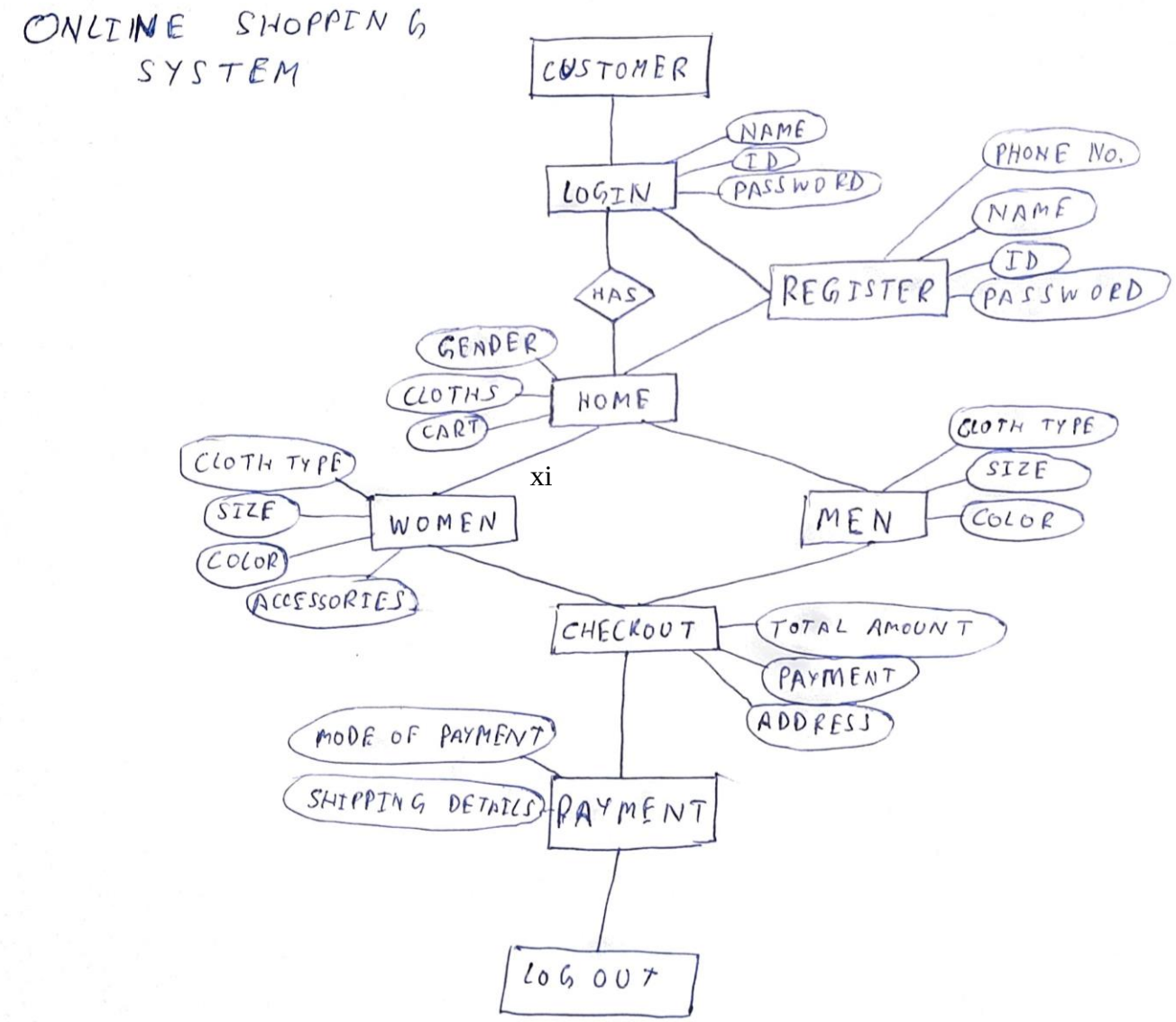
The cart table will automatically clear itself after the user buys their products and the software will logout of their account and exit.

DESIGN

4.1 SCHEMA DIAGRAM



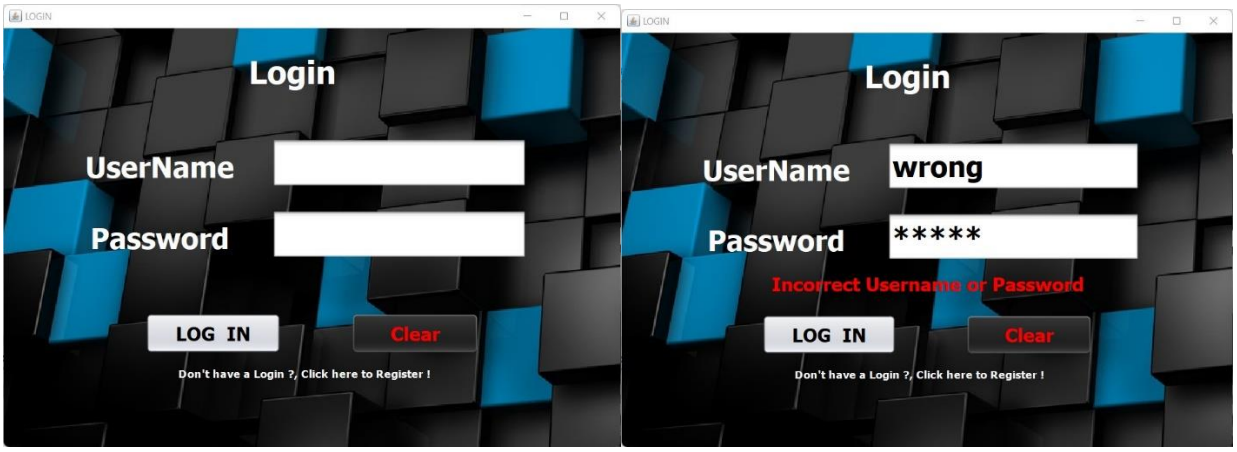
4.2 ENTITY RELATIONSHIP DIAGRAM



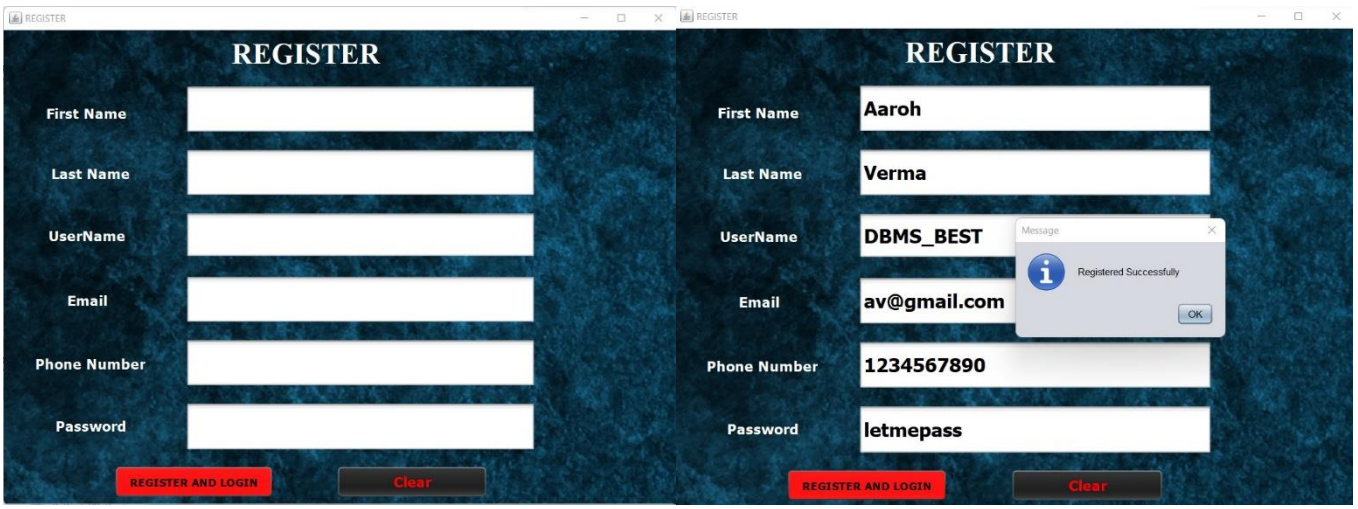
IMPLEMENTATION

FrontEnd/Design

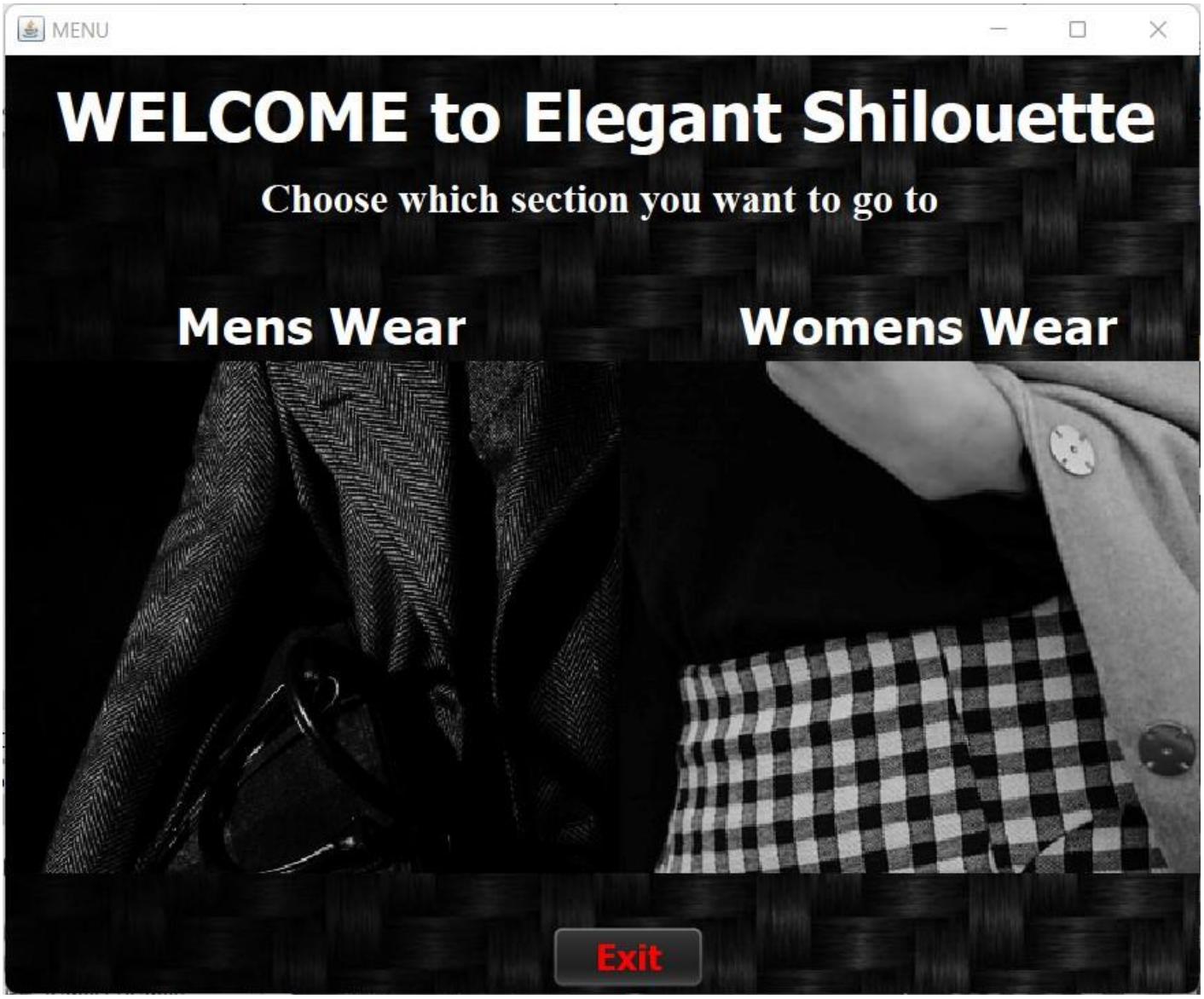
Login Screen



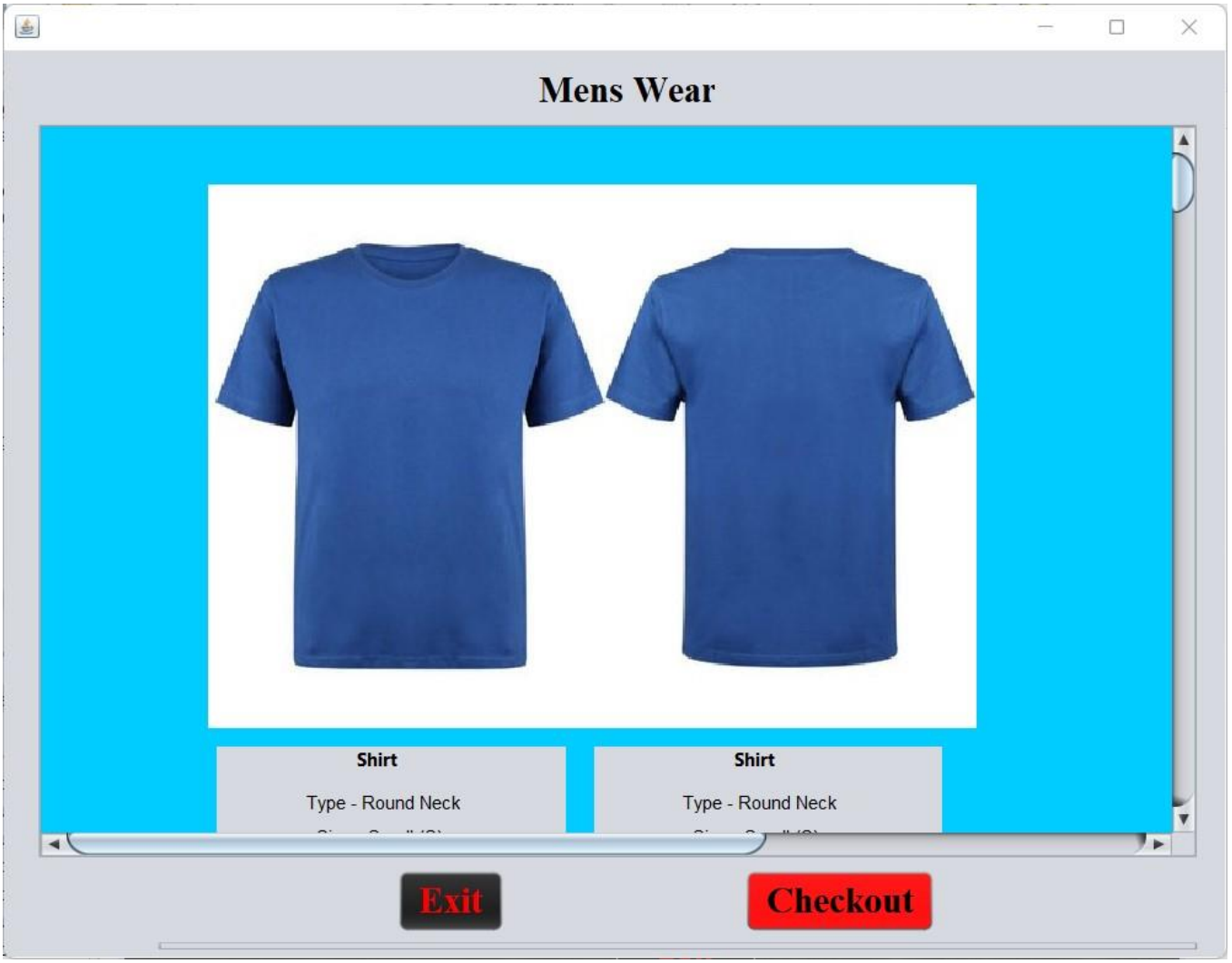
Registration Screen



Main Menu


MENU
WELCOME to Elegant Shilouette
Choose which section you want to go to
Mens Wear
Womens Wear
Exit

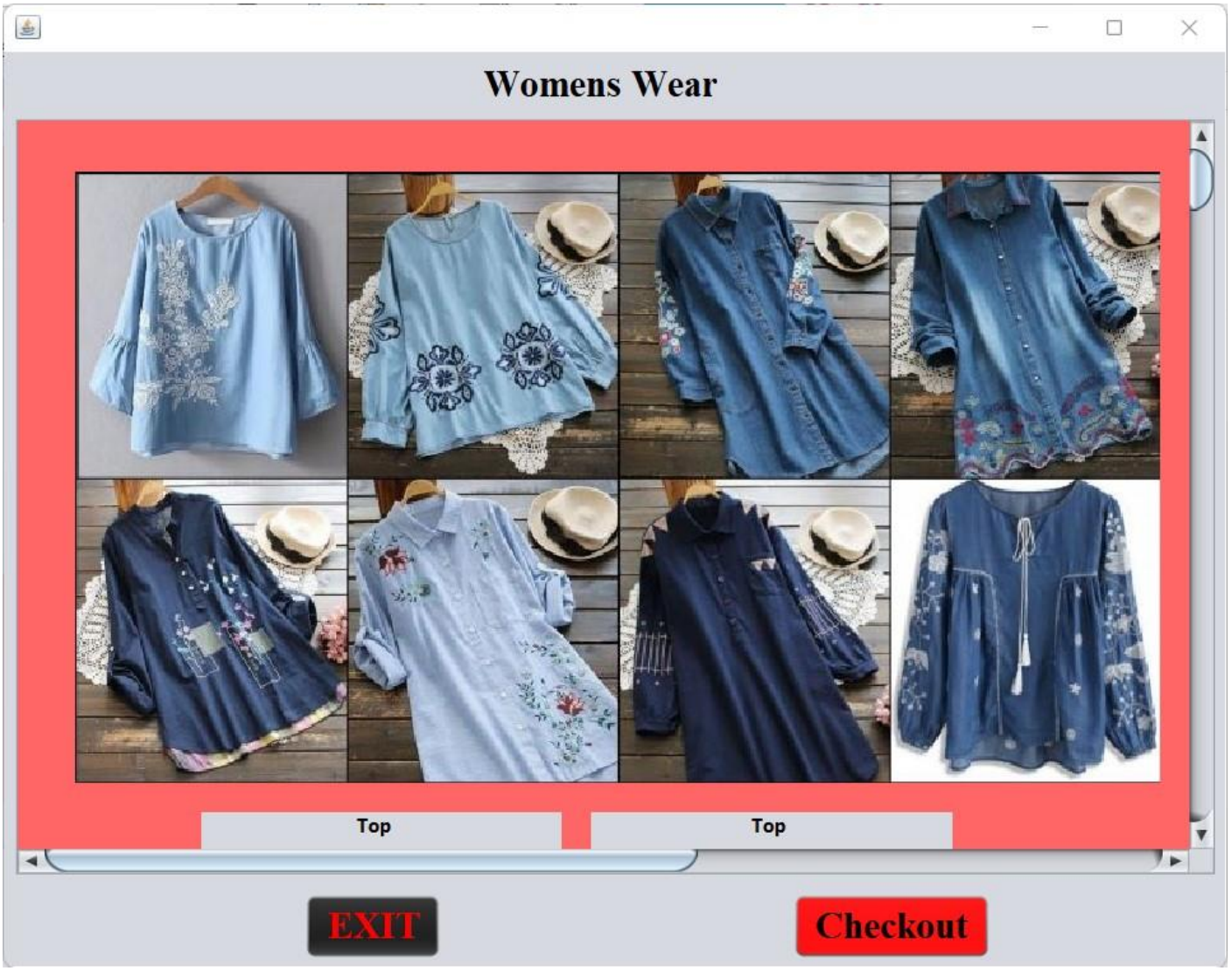
Mens Wear

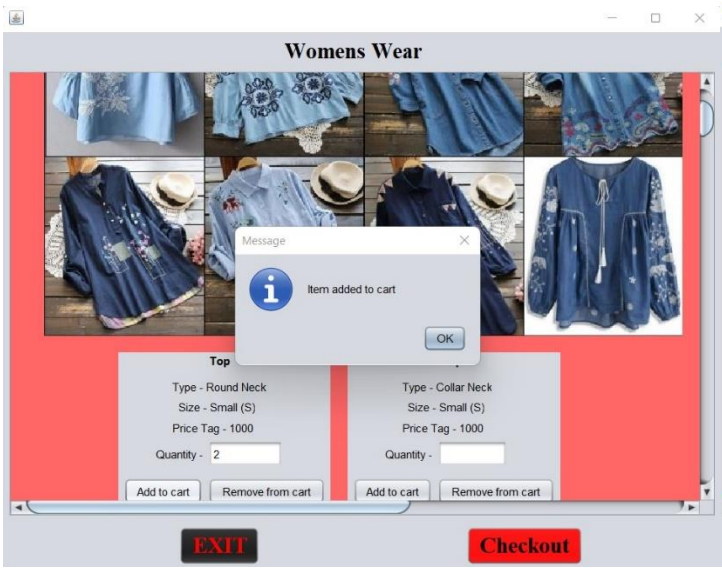

Mens Wear
Shirt
Type - Round Neck
Shirt
Type - Round Neck
Exit
Checkout


Mens Wear
Shirt
Message
Item added to cart
OK
Add to cart
Remove from cart
Add to cart
Remove from cart
Exit
Checkout


Mens Wear
Shirt
Message
Item removed
OK
Add to cart
Remove from cart
Add to cart
Remove from cart
Exit
Checkout

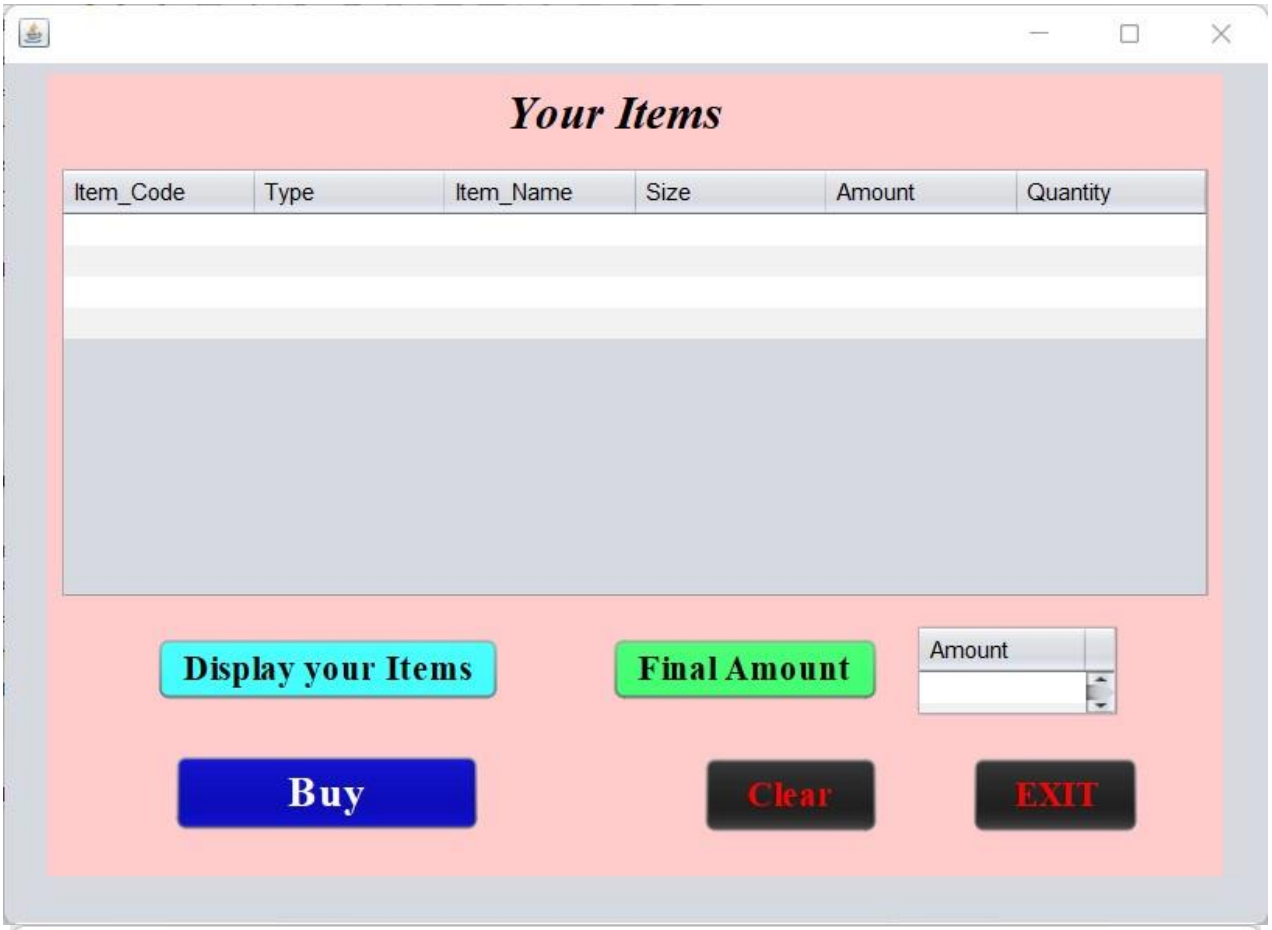
Womens Wear

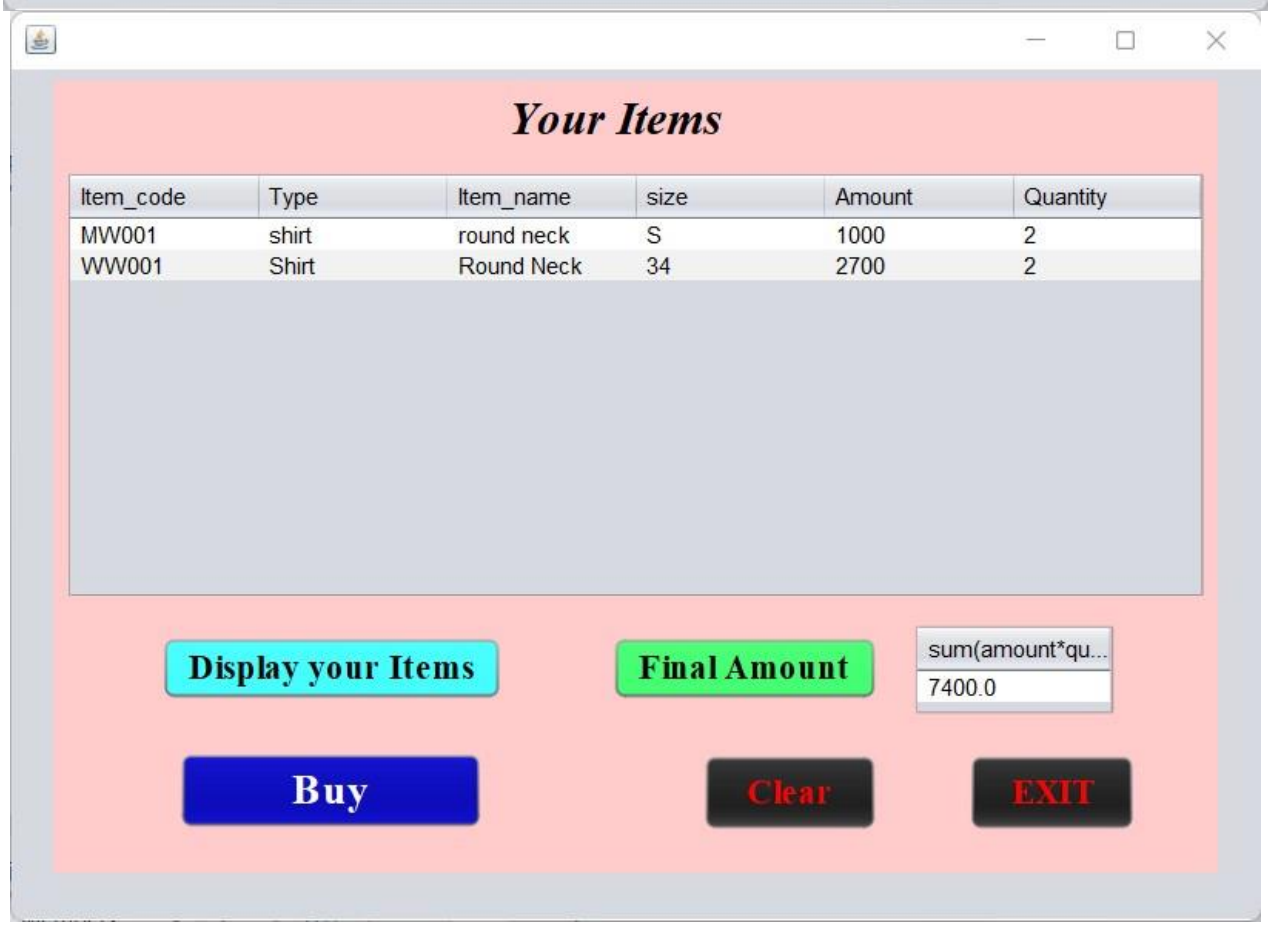

Womens Wear
Top
Top
EXIT
Checkout

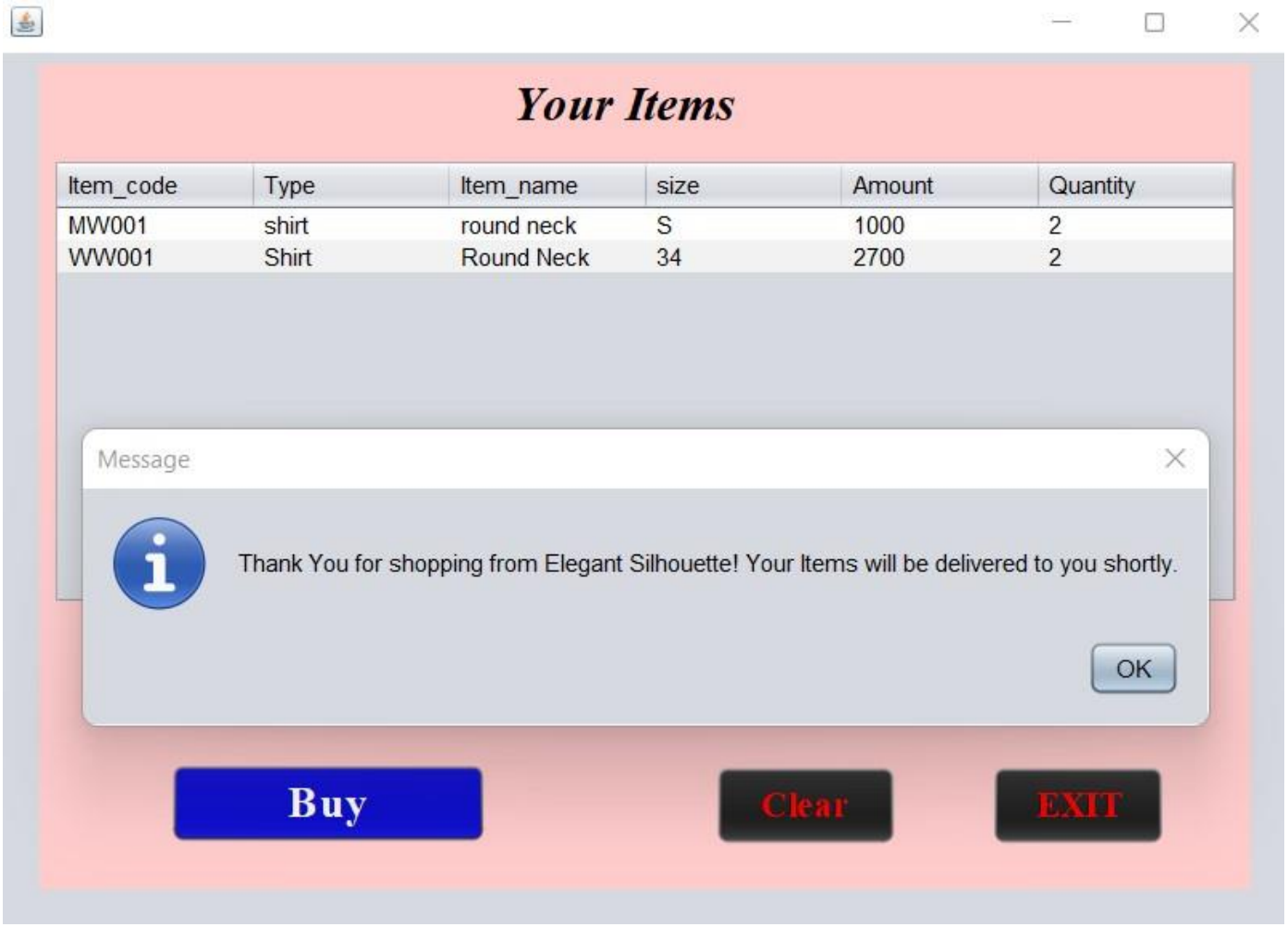

Womens Wear
Message
Item added to cart
OK
Top
Type - Round Neck
Size - Small (S)
Price Tag - 1000
Quantity - 2
Add to cart
Remove from cart
Type - Collar Neck
Size - Small (S)
Price Tag - 1000
Quantity -
Add to cart
Remove from cart
EXIT
Checkout


Womens Wear
Message
Item removed
OK
Top
Type - Round Nec
Size - Small (S)
Price Tag - 1000
Quantity - 2
Add to cart
Remove from cart
Quantity -
Add to cart
Remove from cart
EXIT
Checkout

Checkout/Cart







Database/Backend

All Tables

```
mysql> show tables;
+--------------------+
| Tables_in_mystogan |
+--------------------+
| cart               |
| checkout           |
| login              |
| mens_wear          |
| register           |
| womens_wear        |
+--------------------+
6 rows in set (0.00 sec)
```

```
mysql> desc login;
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| Username | varchar(20) | NO   | PRI | NULL    |       |
| Email    | varchar(30) | YES  |     | NULL    |       |
| Password | varchar(15) | NO   |     | NULL    |       |
+----------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> desc register;
+------------+-------------+------+-----+---------+-------+
| Field      | Type        | Null | Key | Default | Extra |
+------------+-------------+------+-----+---------+-------+
| First_name | char(20)    | NO   |     | NULL    |       |
| Last_name  | char(20)    | YES  |     | NULL    |       |
| Username   | varchar(20) | NO   | PRI | NULL    |       |
| Email      | varchar(35) | YES  |     | NULL    |       |
| Phone_no   | int         | YES  |     | NULL    |       |
| DOB        | date        | YES  |     | NULL    |       |
| Gender     | char(1)     | YES  |     | NULL    |       |
| Password   | varchar(15) | NO   |     | NULL    |       |
+------------+-------------+------+-----+---------+-------+
8 rows in set (0.00 sec)

mysql> desc mens_wear;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Item_code | varchar(5)  | NO   | PRI | NULL    |       |
| Type      | varchar(10) | YES  |     | NULL    |       |
| Item_name | varchar(10) | YES  |     | NULL    |       |
| Price     | int         | YES  |     | NULL    |       |
| size      | varchar(5)  | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> desc womens_wear;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Item_code | varchar(5)  | NO   | PRI | NULL    |       |
| Type      | varchar(10) | YES  |     | NULL    |       |
| Item_name | varchar(10) | YES  |     | NULL    |       |
| Price     | int         | YES  |     | NULL    |       |
| size      | varchar(5)  | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

Login Table

```
mysql> Create table Login (
    -> Username varchar(20) primary key,
    -> Email varchar(30),
    -> Password varchar(15) not null);
Query OK, 0 rows affected (0.05 sec)
```

Register Table

```
mysql> Create table Register (
    -> First_name char(20) not null,
    -> Last_name char(20),
    -> Username varchar(20) primary key,
    -> Email varchar(30),
    -> Phone_no int,
    -> DOB DATE,
    -> Gender char(1),
    -> Password varchar(15) not null );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into register values('Aaroh', 'Verma', 'Mystogan', 'aroh.verma@gmail.com', 9589575073, '2000-10-20', 'M', 'Mysto');
Query OK, 1 row affected (0.09 sec)

mysql> insert into register values('Chandra', 'Prakash', 'Chand', 'chand.prak@gmail.com', 9589575099, '1949-9-20', 'M', 'Chandu');
Query OK, 1 row affected (0.00 sec)

mysql> insert into register values('Ayush', 'Sharma', 'KabOOMM0077', 'ayush.s.sharm@gmail.com', 9589579099, '2015-8-20', 'M', 'BoomBoy');
Query OK, 1 row affected (0.00 sec)

mysql> insert into register values('Satyam', 'Verma', 'Arion_XD', 'sat.yum@gmail.com', 8587579099, '2001-8-20', 'M', 'Arion');
Query OK, 1 row affected (0.35 sec)

mysql> insert into register values('Sarthak', 'Sharma', 'Hustler', 'Sadak.CR@gmail.com', 7787579099, '2000-8-20', 'M', 'HustleCR');
Query OK, 1 row affected (0.00 sec)

mysql> insert into register values('Yash', 'Bobde', 'Babede', 'Bobad.Yash@gmail.com', 7787585099, '2000-8-20', 'M', 'Mysterio');
Query OK, 1 row affected (0.00 sec)

mysql> insert into register values('Percy', 'Morgan', 'Poseidon', 'Percy.jack@gmail.com', 7783485099, '1999-3-12', 'M', 'Percy');
Query OK, 1 row affected (0.01 sec)

mysql> insert into register values('Annabeth', '', 'Athena', 'Athena@yahoo.com', 6583285499, '1999-1-9', 'F', 'Anna');
Query OK, 1 row affected (0.00 sec)
```

Mens Wear/Womens Wear Table

```
mysql> Create table Mens_wear (
    -> Item_code varchar(5) primary key,
    -> Type varchar(10),
    -> Item_name varchar(10),
    -> Price int);
Query OK, 0 rows affected (0.02 sec)

mysql> Create table Womens_wear (
    -> Item_code varchar(5) primary key,
    -> Type varchar(10),
    -> Item_name varchar(10),
    -> Price int);
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> desc Mens_wear;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Item_code | varchar(5)  | NO   | PRI | NULL    |       |
| Type      | varchar(10) | YES  |     | NULL    |       |
| Item_name | varchar(10) | YES  |     | NULL    |       |
| Price     | int         | YES  |     | NULL    |       |
| size      | varchar(5)  | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)

mysql> desc Womens_wear;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| Item_code | varchar(5)  | NO   | PRI | NULL    |       |
| Type      | varchar(10) | YES  |     | NULL    |       |
| Item_name | varchar(10) | YES  |     | NULL    |       |
| Price     | int         | YES  |     | NULL    |       |
| size      | varchar(5)  | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

Insert Product in Mens Wear

```
mysql> insert into Mens_wear values('MW001', 'Shirt', 'Round Neck', 1000, 36);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Mens_wear values('MW002', 'Shirt', 'Collar Neck', 1500, 40);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Mens_wear values('MW003', 'Shirt', 'Collar Neck', 4000, 32);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Mens_wear values('MW004', 'T-Shirt', 'Collar Neck', 4000, 42);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Mens_wear values('MW004', 'T-Shirt', 'Collar Neck', 2000, 38);
ERROR 1062 (23000): Duplicate entry 'MW004' for key 'mens_wear.PRIMARY'
mysql> insert into Mens_wear values('MW005', 'T-Shirt', 'Collar Neck', 2000, 38);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Mens_wear values('MW006', 'Pant', 'Jeans', 2000, 40);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Mens_wear values('MW007', 'Lower', '', 500, 30);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Mens_wear values('MW008', 'Lower', 'shorts', 700, 40);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Mens_wear values('MW009', 'Pant', 'Trouser', 2700, 34);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Mens_wear values('MW010', 'Pant', 'Torn', 5700, 44);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from mens_wear;
+-----------+---------+-------------+-------+------+
| Item_code | Type    | Item_name   | Price | size |
+-----------+---------+-------------+-------+------+
| MW001     | shirt   | round neck  | 1000  | S    |
| MW002     | shirt   | round neck  | 1200  | L    |
| MW003     | shirt   | collar neck | 1200  | S    |
| MW004     | shirt   | collar neck | 1400  | L    |
| MW005     | T-shirt | collar neck | 1600  | S    |
| MW006     | T-shirt | collar neck | 1600  | L    |
| MW007     | Pant    | jeans       | 1600  | S    |
| MW008     | Pant    | jeans       | 2000  | L    |
| MW009     | Pant    | Trouser     | 1800  | S    |
| MW010     | Pant    | Trouser     | 2000  | L    |
| MW011     | Lower   | Full        | 1100  | S    |
| MW012     | Lower   | Full        | 1300  | L    |
| MW013     | Lower   | Shorts      | 900   | S    |
| MW014     | Lower   | Shorts      | 1100  | L    |
+-----------+---------+-------------+-------+------+
14 rows in set (0.00 sec)
```

Modify/Insert Womens Wear

```
mysql> alter table Womens_wear modify column Price varchar(10);
Query OK, 0 rows affected (0.53 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> insert into Womens_wear values('WW001', 'Shirt', 'Round Neck', 2700, 34);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Womens_wear values('WW002', 'Shirt', 'Round Neck', 6700, 38);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Womens_wear values('WW002', 'T-Shirt', 'Collar', 2700, 32);
ERROR 1062 (23000): Duplicate entry 'WW002' for key 'womens_wear.PRIMARY'
mysql> insert into Womens_wear values('WW003', 'T-Shirt', 'Collar', 2700, 32);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Womens_wear values('WW004', 'Top', 'Collar', 500, 32);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Womens_wear values('WW005', 'Top', 'Round Neck', 3500, 36);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Womens_wear values('WW006', 'Top', 'V-Neck', 3500, 36);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Womens_wear values('WW007', 'Skirt', 'Full Length', 4000, 34);
ERROR 1406 (22001): Data too long for column 'Item_name' at row 1
mysql> insert into Womens_wear values('WW007', 'Skirt', 'Full', 4000, 34);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Womens_wear values('WW008', 'Skirt', 'Short', 2000, 36);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Womens_wear values('WW009', 'Lower', 'Shorts', 1000, 34);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from womens_wear;
+-----------+---------+------------+-------+------+
| Item_code | Type    | Item_name  | Price | size |
+-----------+---------+------------+-------+------+
| WW001     | Shirt   | Round Neck | 2700  | 34   |
| WW002     | Shirt   | Round Neck | 6700  | 38   |
| WW003     | T-Shirt | Collar     | 2700  | 32   |
| WW004     | Top     | Collar     | 500   | 32   |
| WW005     | Top     | Round Neck | 3500  | 36   |
| WW006     | Top     | V-Neck     | 3500  | 36   |
| WW007     | Skirt   | Full       | 4000  | 34   |
| WW008     | Skirt   | Short      | 2000  | 36   |
| WW009     | Lower   | Shorts     | 1000  | 34   |
+-----------+---------+------------+-------+------+
9 rows in set (0.00 sec)
```

Checkout/Cart table

```
mysql> Create table Checkout (
    -> Item_code varchar(5) primary key,
    -> Amount int,
    -> Mode_of_Payment varchar(10),
    -> Address varchar(50) not null);
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> Create table Cart (
    -> Item_code varchar(5) primary key,
    -> Item_name varchar(10),
    -> Amount int);
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> select * from cart;
+-----------+-------+------------+------+--------+----------+
| Item_code | Type  | Item_name  | size | Amount | Quantity |
+-----------+-------+------------+------+--------+----------+
| MW001     | shirt | round neck | S    |   1000 | 2        |
| WW001     | Shirt | Round Neck | 34   |   2700 | 2        |
+-----------+-------+------------+------+--------+----------+
2 rows in set (0.00 sec)
```

Conclusion: Limitations and Discussion

This is a small prototype of a sales management application for an online clothing store. The limitation of the application is that it lacks enough features to be implemented in a real life situation.

Such an application, if built with professional expertise, can be highly useful cost effective way for small businesses to manage themselves efficiently. A clothing store works completely on the concept of offline transactions thus making it harder to manage such an application since it still needs to implement a trustable payment system still will be easier to manage online transactions.

An application like this is sure to be a hit since human nature persuades people to take the easier route and hence making an online store available world wide by your mobile phones, computers/laptops a huge success.

References

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