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Supermarket Management system

Project Report

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Project On Supermarket Management

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Abstract:

The purpose of Supermarket Management System is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available easy to work with.

Introduction:

Supermarket is the active control program which allows the sales and purchases reelected activities. Super Market Management software helps create invoices, Product category, purchase orders, receiving lists, payment receipts and can print bar coded labels. A Super shop management software system configured to your warehouse, retail or product line will help to create revenue for your company. The Super shop Management will control operating costs and provide better understanding. We are your source for Super shop management information, Super shop management software and tools.

Background:

The essence of a supermarket management system is for an effective automation of the management of a supermarket. The Supermarket Management System is a project that deals with supermarket automation and it includes both purchasing and selling of items. Supermarket management system is the system where all the aspects related to the proper management of supermarket is done. These aspects involve managing information about the various products, staff, managers, customers, billing etc. This system provides an efficient way of managing the supermarket information. Also allows the customer to purchase and pay for the items purchased. This study is based on the sales transaction and billing of items in a supermarket.

Objectives:

The main objectives of the project is to manage the details of the Product, Product type, Seller details, Sells, Bills. The project is totally built at administrative and thus only the administrator is guaranteed the access.

Features

- Login page: Login as admin/seller
- Product details: New Product add, update product details, delete any product
- Category of the product: Add/Delete/Update category of the product
- Admin panel: Admin can add, delete, update information
- Seller panel: Add seller information
- Billing panel: Seller sells any product and bill will printed and also store sells data in sellslis
- SellsList

Use-Case Diagram:

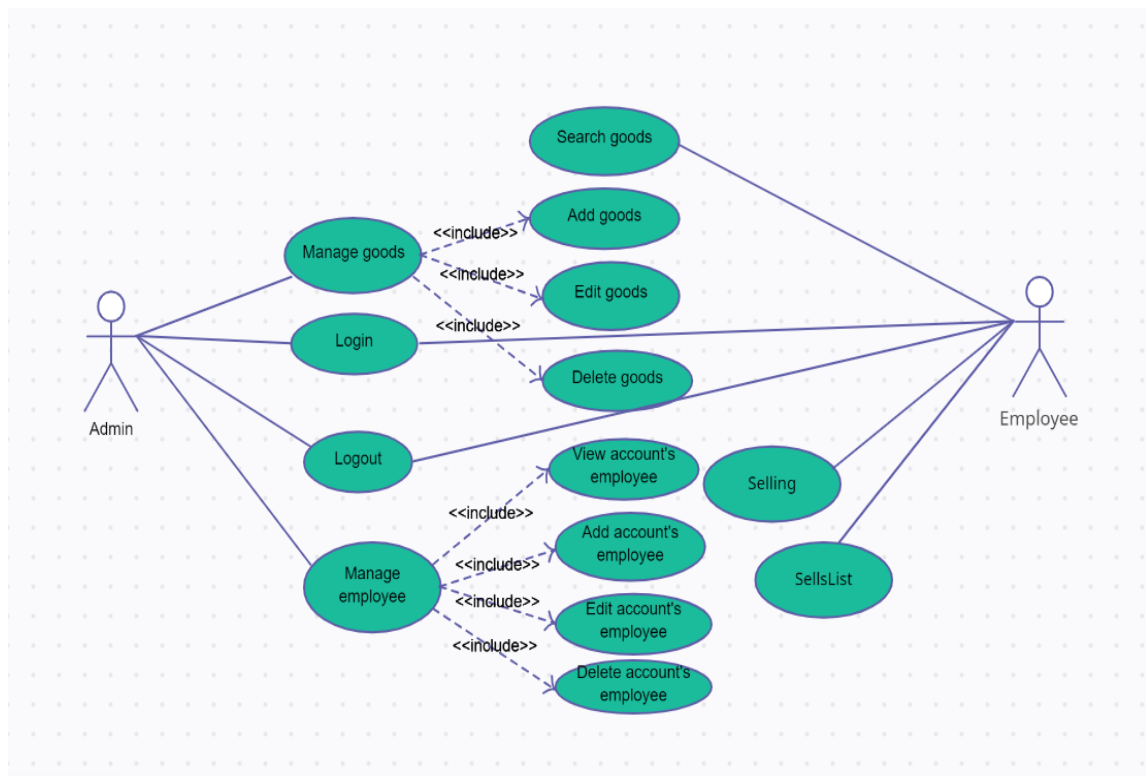


Figure 1: Use-case diagram of the Supermarket Management System

ER Diagram:

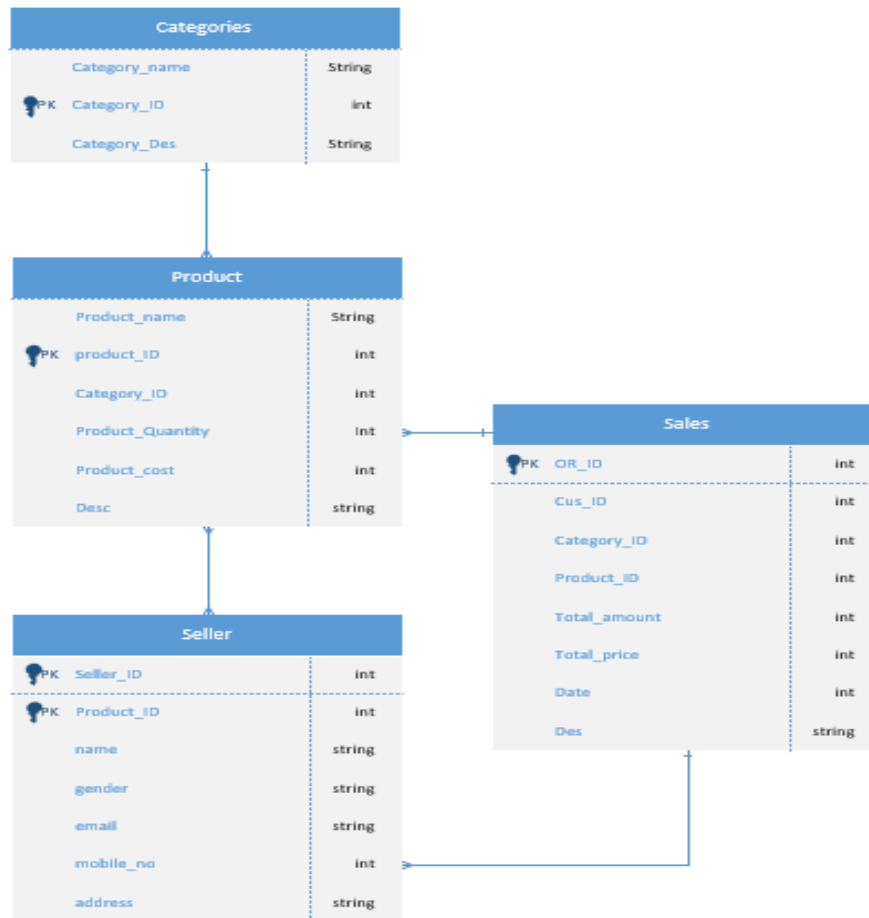


Figure 2: ER Diagram

Software Requirements:

- Java
- Java Swing
- MySQL

Implementation:



Figure 3 : Splash

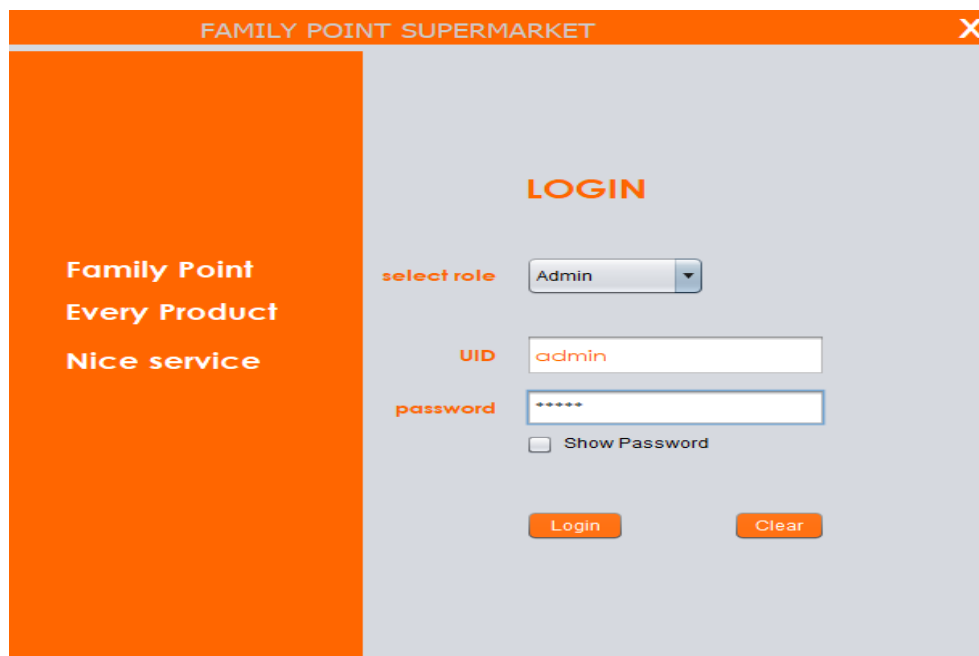
The login page is titled "FAMILY POINT SUPERMARKET" in the top orange header bar. On the left, an orange sidebar contains the text "Family Point", "Every Product", and "Nice service". The main content area has a light gray background and is titled "LOGIN". It includes a "select role" dropdown menu currently showing "Admin", a "UID" input field containing "admin", and a "password" input field with masked characters. Below the password field is a "Show Password" checkbox. At the bottom are two orange buttons labeled "Login" and "Clear".

Figure 4 : Login page

FAMILY POINT SUPERMARKET

X

PRODUCTS

SELLER

Login

MANAGE CATEGORIES

NAME

DESCRIPTION

Add
Edit
Delete
Clear

CATEGORIES LIST

cat_id	cat_name	cat_des
8	Fruits	all type fruits
7	grocery	food and small things for home
6	drinks	soft drink
5	Cosmeticsef	
4	Cleaning	
2	Meat	
1	Beverage	

Figure 5: Manage Categories

FAMILY POINT GROCERY STORE

X

SELLER

CATEGORIES

Logout

MANAGE PRODUCTS

CATEGORY

NAME

Description

QUANTITY

PRICE

TOTAL

Add
Edit
Delete
Clear

PRODUCTS LIST

prod_id	Name	quantity	cost	Category	Total	Description
7	njkdsdhsf	123	12	Beverage	12	
6	face wash	1	200		400	
5	vilamin c ser...	75	250	Cosmeticsef	136	
4	pepsi	1	150	Beverage	15	
1	beef	1	600	Meat	43	

Figure 6: Manage Product

FAMILY POINT SUPERMARKET

X

PRODUCTS

CATEGORIES

UPDATE ADMIN

MANAGE SELLERS

NAME

ADDRESS

MOBILE NO.

PASSWORD

GENDER

EMAIL

Add

Clear

Edit

Delete

SELLERS LIST

ID	NAME	ADDRESS	MOBILE_NO	EMAIL	GENDER	PASSWORD
2	shakil aham...	gopalgonj	01328283122		Male	[B@7fda9e9d
1	seller	jatrabari,dha...	01723456789		Male	[B@6a8407c7

Figure 7: Mange Seller

FAMILY POINT SUPERMARKET

X

SELLER

Logout

Update Admin

Name

Password

Update

Clear

Figure 8: Update Admin

Category

🔍

NAME

vitamin c serum

QTY

2

Add To Bill

Clear

prod_id

Name

quantity

cost

Category

Total

Description

1	beef	1	600	Meat	43	
4	pepsi	1	150	Beverage	15	
5	vitamin c serum	75	250	Cosmetic	136	
6	face wash	1	200		400	
7	njksdshsf	123	12	Beverage	12	

PRODUCT LIST

~~~~~FAMILY POINT~~~~~

| NUM | PRODUCT         | PRICE | QUANTITY | TOTAL |
|-----|-----------------|-------|----------|-------|
| 1   | beef            | 600   | 5        | 3000  |
| 2   | vitamin c serum | 250   | 2        | 500   |

Confirm

Rs3500

Print

SellsList

Logout

Figure 9: Billing Point

FAMILY POINT SUPERMARKET

X

SELLS LIST

| BILLID | SELLER_ID | DATE       | TOTAL |
|--------|-----------|------------|-------|
| 1      | 1         | 2023-02-01 | 600   |
| 2      | 1         | 2023-04-01 | 1350  |
| 7      | 1         | 2023-04-03 | 850   |
| 8      | 1         | 2023-04-03 | 6000  |
| 9      | 1         | 2023-07-10 | 600   |
| 10     | 1         | 2023-07-10 | 600   |
| 12     | 1         | 2023-07-10 | 500   |
| 13     | 1         | 2023-07-10 | 500   |

Logout

Figure 10: Sells-List

## **Future Work:**

In the future, the following components can be added to the system in order to improve the effectiveness and efficiency of the system, which includes.

- A good Internet backup should be automated after everyday sales.
- Internet Transactions should be allowed.

## **Conclusion:**

In conclusion, Supermarket Management System has to do with making appropriate effort to stop the rising problem to all manual supermarket operation in order to enhance the operation of such supermarket. In this project, the software or system that can be used to aid all supermarkets that is still operating manually have been successfully developed. The software has a large memory of storing all the goods in the supermarket and also keeping record it is highly effective and accurate.

## **References:**

<https://www.geeksforgeeks.org/super-markets-characteristics-advantages-and-disadvantages/>  
<https://lfsolutions.net/system-for-supermarket/>  
[https://www.tutorialspoint.com/swing/pdf/swing\\_jframe.pdf](https://www.tutorialspoint.com/swing/pdf/swing_jframe.pdf)