SUPER MARKET MANAGEMENT SYSTEM

A mini project report submitted by

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

BONAFIDE CERTIFICATE

This is to certify that the project report entitled, "Super market management system" is a bonafide record of Mini Project work done as part of CSE317 Problem Solving Using Python during the academic year 2020-2021 by

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Submitted for the Viva Voce held on _____

Examiner

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ABSTRACT

Supermarket Management System is created using Python to easily manage all supermarket related functions by a single user. As a terminal application, the users are able to perform basic operations of their supermarket such as additional items, view items, clear items/stocks, purchase items, search for specific products in the stocks and edit any items/products placed in the system record. Supermarket Management System also facilitates users to add new products in their stocks as a sale. This function includes adding items with their name, quantity(along with validation), and price of the item. Users can also see all the items stores in the system. The program shows the number of items along with their name, quantity, and price.

INTRODUCTION

In this project, the users are also provided an option to purchase items from the supermarket. The user can view items and then purchase the items which they need. To buy an item, the user needs to enter the product name and then click enter to confirm. Thie system then displays a message saying the user to pay the price of the item in the counter.Its features are:-
1.View all products

2.Add items for sale by the user

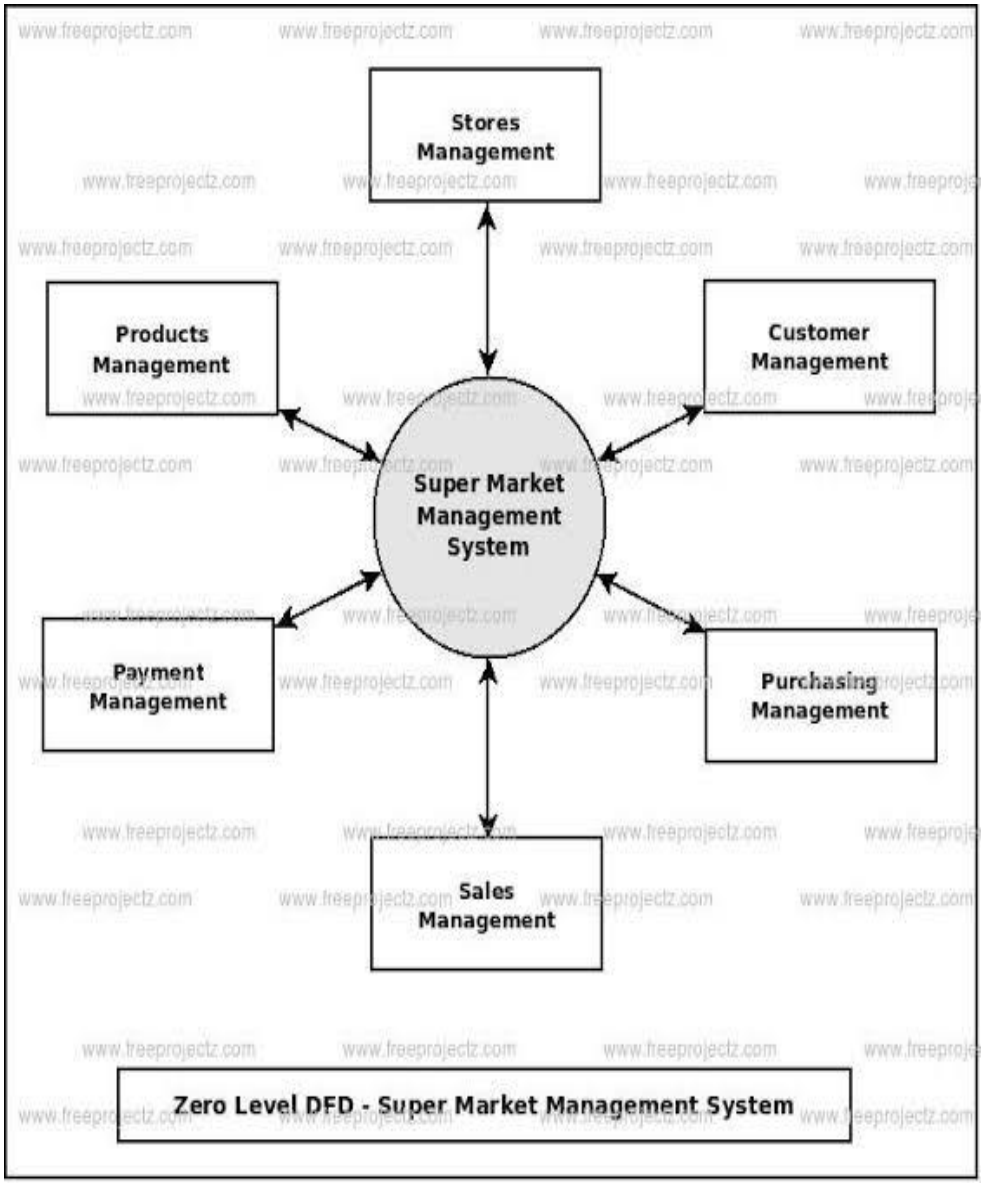
3.Purchase items

4.Search items

5.Edit products

Additionally, the user can also search for any items that are in the inventory of supermarket management system. They just need to enter the product name. In order to edit an item, the user has to enter the name, and then if the name of the items matches, the user will be able to edit the name, quantity value, and price of that specific product.

DESIGN AND ARCHITECTURE



IMPLEMENTATION

CODE:

```
items = []
while True:
    display = input('Press enter to continue.')
    print('------------------Welcome to the supermarket------------------')
    print('1. View items\n2. Add items for sale\n3. Purchase items\n4. Search items \n5. Edit items\n6. Exit')
    choice = input('Enter the number of your choice : ')

    if choice == '1' :
        print('------------------View Items------------------')
        print('The number of items in the inventory are : ',len(items))
        while len(items) != 0:
            print('Here are all the items available in the supermarket.')
            for item in items:
                for key, value in item.items():
                    print(key, ':', value)
            break

    elif choice == '2' :
        print('------------------Add items------------------')
        print('To add an item fill in the form')
        # while True:
        #     try:
        #         number_items = int(input('Enter the number of items you want to add in the inventory : '))
        #         break
        #     except ValueError:
        #         print('Number of items should only be in digits')
```

```
    # for num in range(number_items):
    item = {}
    item['name'] = input('Item name : ')
    while True:
        try:
            item['quantity'] = int(input('Item quantity : '))
            break
        except ValueError:
            print('Quantity should only be in digits')
    while True:
        try:
            item['price'] = int(input('Price $ : '))
            break
        except ValueError:
            print('Price should only be in digits')
    print('Item has been successfully added.')
    items.append(item)

elif choice == '3' :
    print('------------------purchase items------------------')
    print(items)
    purchase_item = input('which item do you want to purchase? Enter name : ')
    for item in items:
        if purchase_item.lower() == item['name'].lower() :
            if item['quantity'] != 0 :
                print('Pay ', item['price'] , 'at checkout counter.')
                item['quantity'] -= 1
            else:
                print('item out of stock.')
```

```
elif choice == '4' :
    print('------------------search items------------------')
    find_item = input('Enter the item\'s name to search in inventory : ')
    for item in items:
        if item['name'].lower() == find_item.lower():
            print('The item named ' + find_item + ' is displayed below with its details')
            print(item)
        else:
            print('item not found.')


elif choice == '5' :
    print('------------------edit items------------------')
    item_name = input('Enter the name of the item that you want to edit : ')
    for item in items:
        if item_name.lower() == item['name'].lower():
            print('Here are the current details of ' + item_name)
            print(item)
            item['name'] = input('Item name : ')
            while True:
                try:
                    item['quantity'] = int(input('Item quantity : '))
                    break
                except ValueError:
                    print('Quantity should only be in digits')
            while True:
                try:
                    item['price'] = int(input('Price $ : '))
                    break
                except ValueError:
                    print('Price should only be in digits')
```

```
            print('Item has been successfully updated.')
            print(item)
        else:
            print('Item not found')


elif choice == '6' :
    print('------------------exited------------------')
    break


else:
     print('You entered an invalid option')
```

CONCLUSION

The proposed supermarket management system is very useful for big supermarkets as well as small ones to manage their inventories, staffs, and records of purchases and sales. New features and modules can be easily added into the system, so the project is very flexible and can adapt to the requirements of the supermarket and its users.

REFERENCES

1. www.scribd.com
2. www.freeprojectz.com