MKSSS Cummins College of Engineering for Women Pune

SYNOPSIS

ORGANIC STORE

(GROCERY MANAGEMENT SYSTEM)

Group Member :

C NUMBER	NAME
UCE2023002	Sasane Sanyukta
UCE2023003	Sarde Sameeksha
UCE2023004	Ramgiri Akshata
UCE2023006	Sabde Shraddha

DEPARTMENT OF COMPUTER ENGINEERING

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SYNOPSIS

1] Problem Statement:

In today's competitive retail landscape, grocery stores are constantly seeking ways to improve efficiency, enhance customer experience, and streamline their operations. A modern Grocery Management System in Python is a critical solution for addressing these challenges.

This system will serve as a central hub for managing all aspects of a grocery store's daily activities, integrating various functions to create a seamless shopping experience for customers and optimize internal processes. The Grocery Management System in Python aims to address these needs, enhancing the overall operation and service of the store.

2] Keywords:

Keywords for Grocery Management Project include:

1. Online Shopping
2. User Registration
3. User Authentication
4. Product Display
5. Order Placement
6. Sign Up
7. Sign In
8. Product Selection
9. Confirmation Messages
10. Fruits Selection

3] Abstract:-

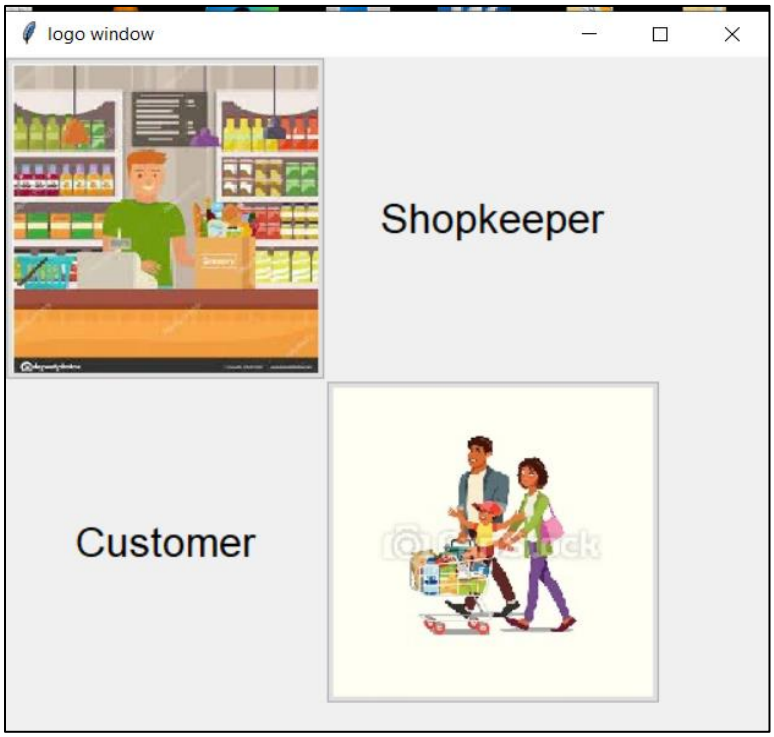
Conventional fruits and vegetables are often sprayed with pesticides. When you buy such fruits and vegetables, these stubborn chemicals remain on the food. Organic food is not easily available in the market. Through this project we have tried to overcome the difficulty of physically purchasing the organic food products. In this project the user can order the fruits according to the available price and quantity. We have used Tkinter and PIL libraries for the frontend and MySQL for the database and the project is built in Python Language. The customer can sign up to the system and purchase the products by clicking onto the images of them. This project emphasizes on smoothing the process to order the organic fruits as per convenience of the users through online mode.

4] Module wise description

a] Launch window:- In this module we have created a window to display options whether the user is a customer or a shopkeeper. In this project we have implemented the customer part of the project where when the user selects the customer option then they can purchase the product according the different categories. We have used the grid method of Tkinter to the display the images of shopkeeper and customer.

b] Customer module:-

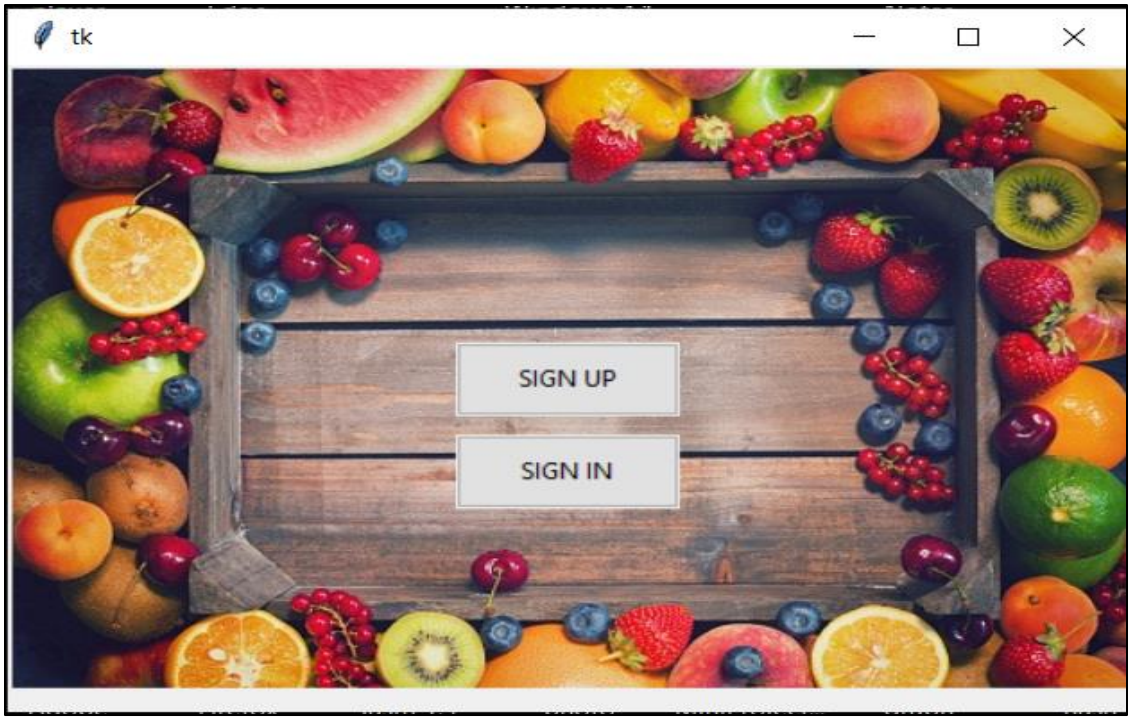
In this module have asked the customer to sign in and sign up for further process. The user must be registered first in order to use the services. For the first time when the user comes to the system he will be asked to sign up. After that they can sign in. If the user has already signed up they can directly sign in to the system.

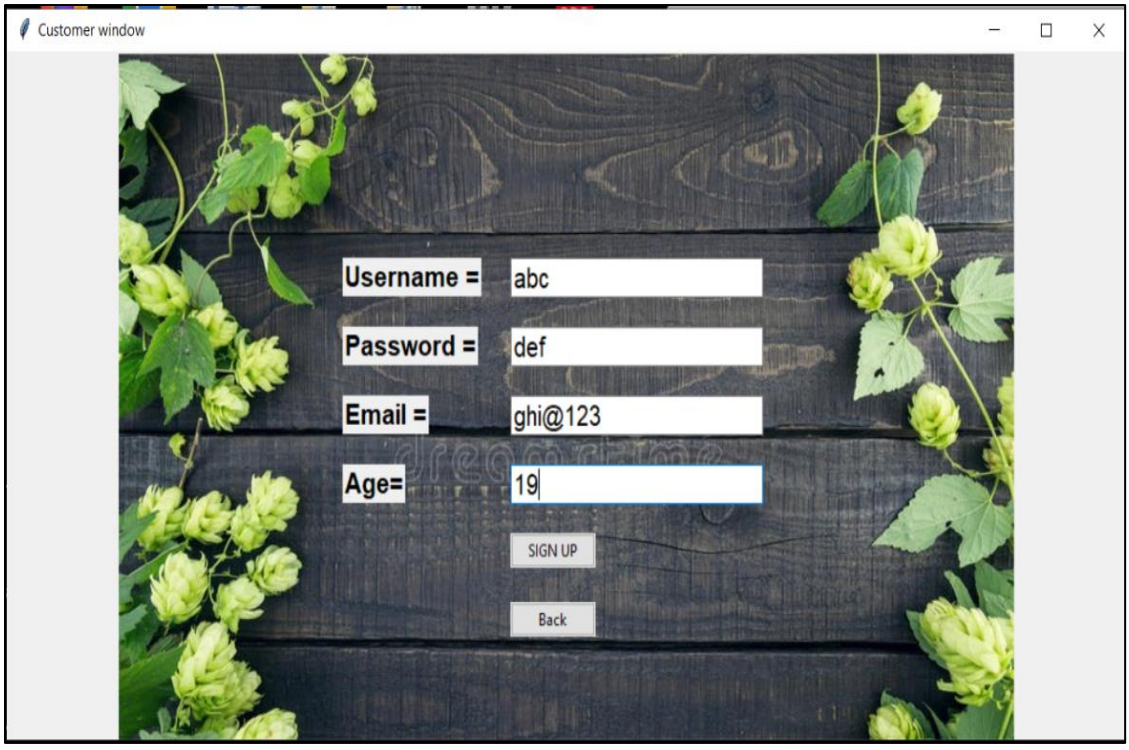


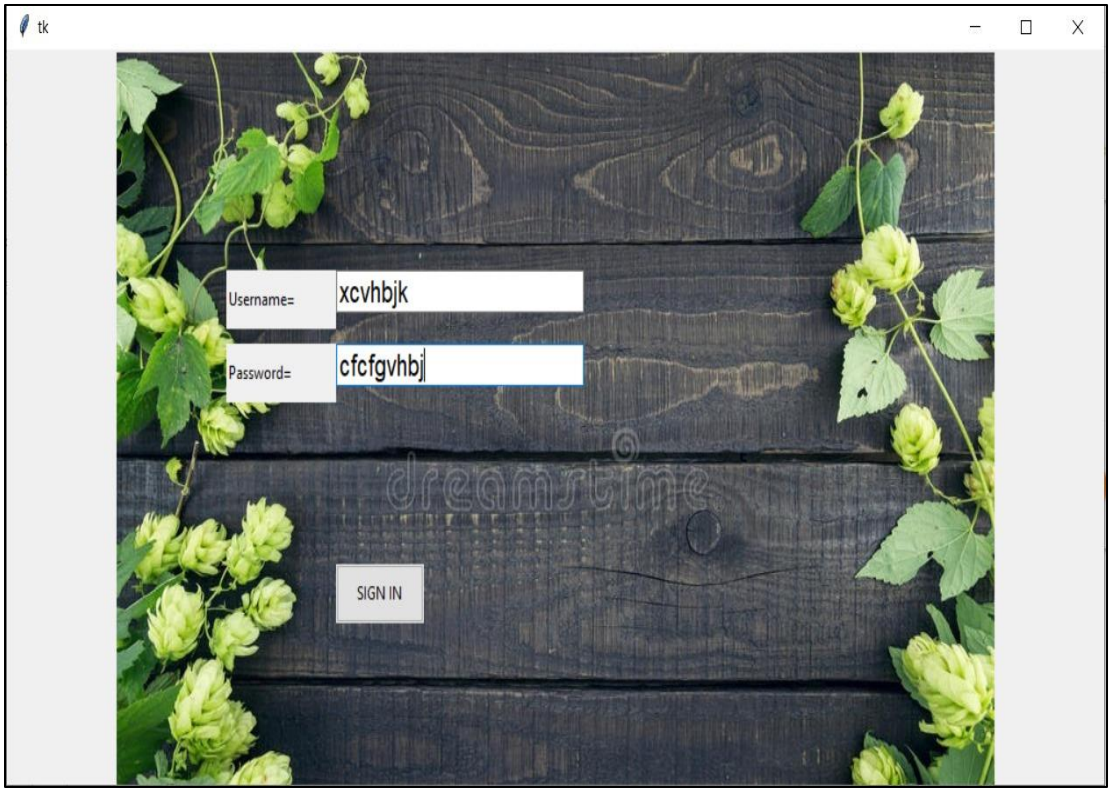
c] Sign in and Sign up module:-

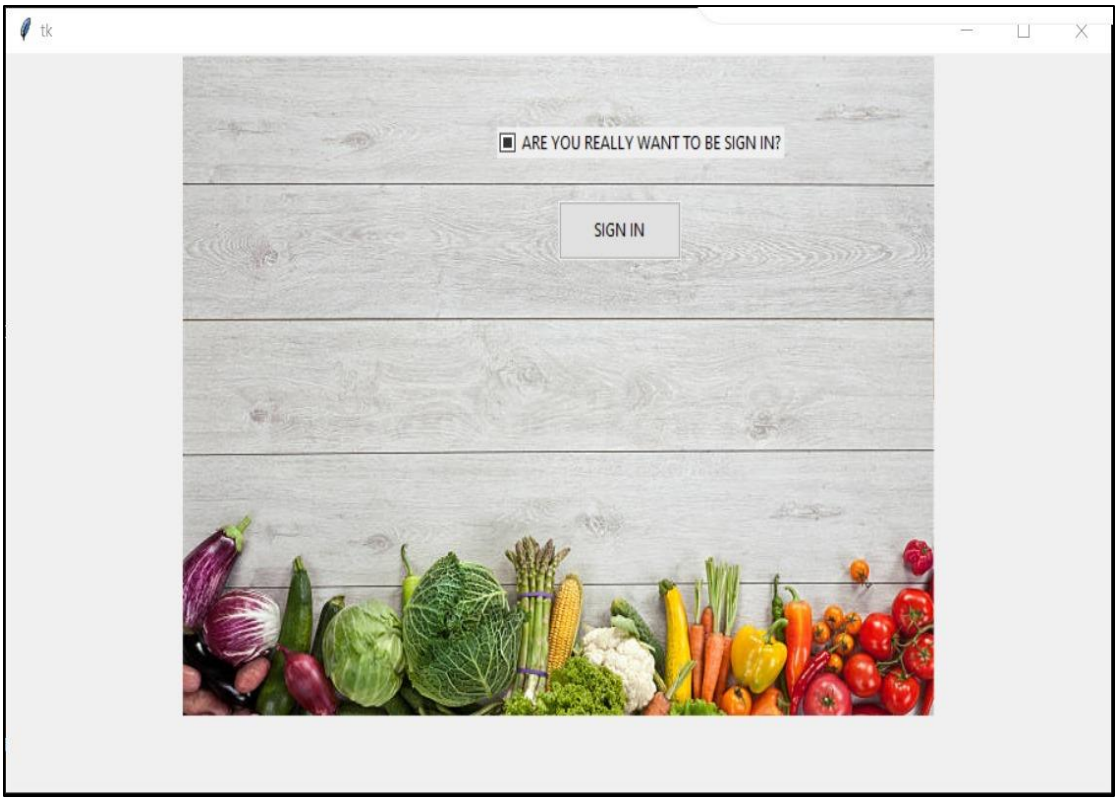
In this module when the user click on sign up option the display will be directed to the signup form where the user has to give information like username, password,email,age,etc. This information will be stored in the database. After the user fill up the form, he will be directed to the sign up section, where he needs to give the username and password which was provided at the time of sign up. The data will be matched in the database's username and password field. If it is found then customer will be directed to the next section otherwise user cannot avail further services. For the sign up form we have used label and button widgets of the Tkinter.

Sign in and Sign up :

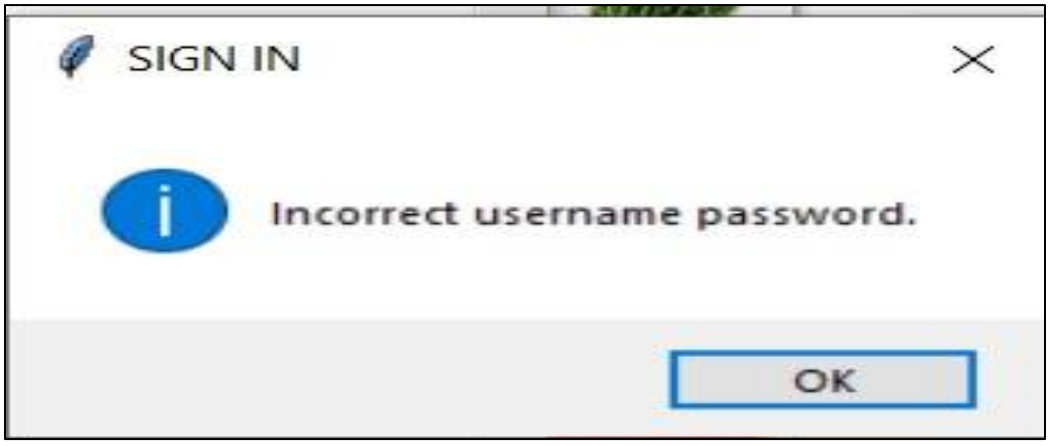





tk
Username=
xcvhbjk
Password=
cfcfgvhbj
SIGN IN

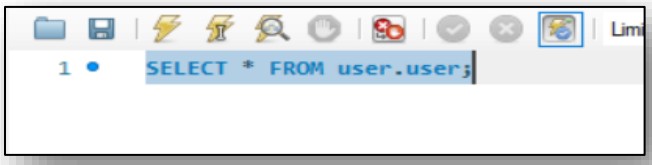

tk
ARE YOU REALLY WANT TO BE SIGN IN?
SIGN IN

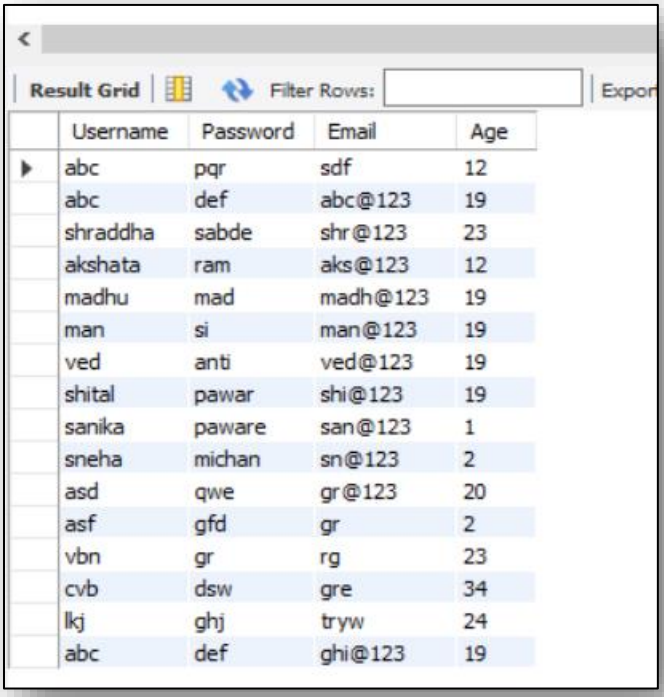
Incorrect Username and Password:



d] Database connection module:-

When the user sign in to the system the control transfers to the database where we have created a table that stores the username,password,email,etc information of the customer we have used the MySQL for the database. The hostname,user,password and database name is passed to connect method which connects to the particular table in the data that is used to fetch the data.

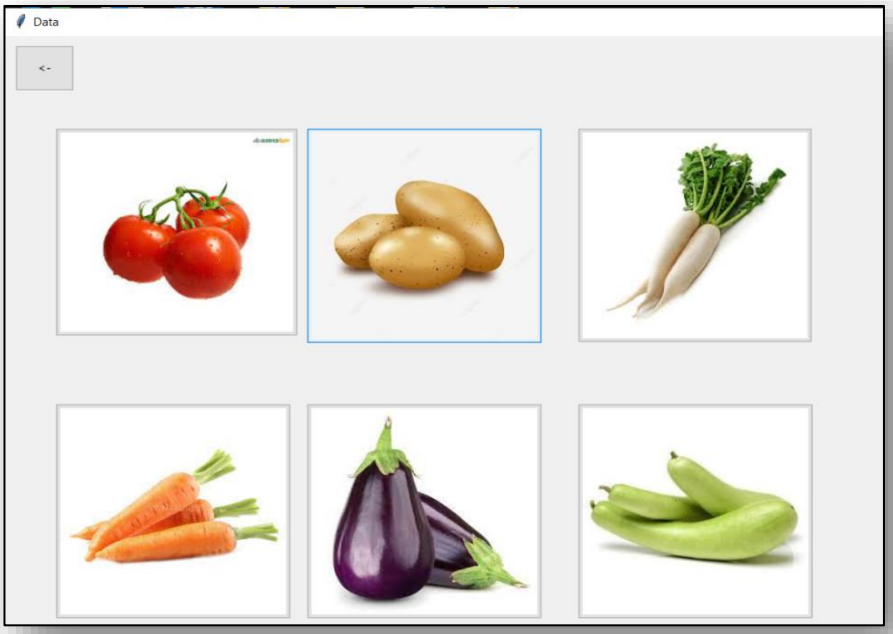




Username	Password	Email	Age
abc	pqr	sdf	12
abc	def	abc@123	19
shraddha	sabde	shr@123	23
akshata	ram	aks@123	12
madhu	mad	madh@123	19
man	si	man@123	19
ved	anti	ved@123	19
shital	pawar	shi@123	19
sanika	paware	san@123	1
sneha	michan	sn@123	2
asd	qwe	gr@123	20
asf	gfd	gr	2
vbn	gr	rg	23
cvb	dsw	gre	34
lkj	ghj	tryw	24
abc	def	ghi@123	19

e] Product category module:

In this module we have created three categories of the product, Fruits,Vegetables and Farming. For this project we have used the fruits category for the operations.When the customer click on this button he will be directed to the fruits section user can also buy any of the other .


Data
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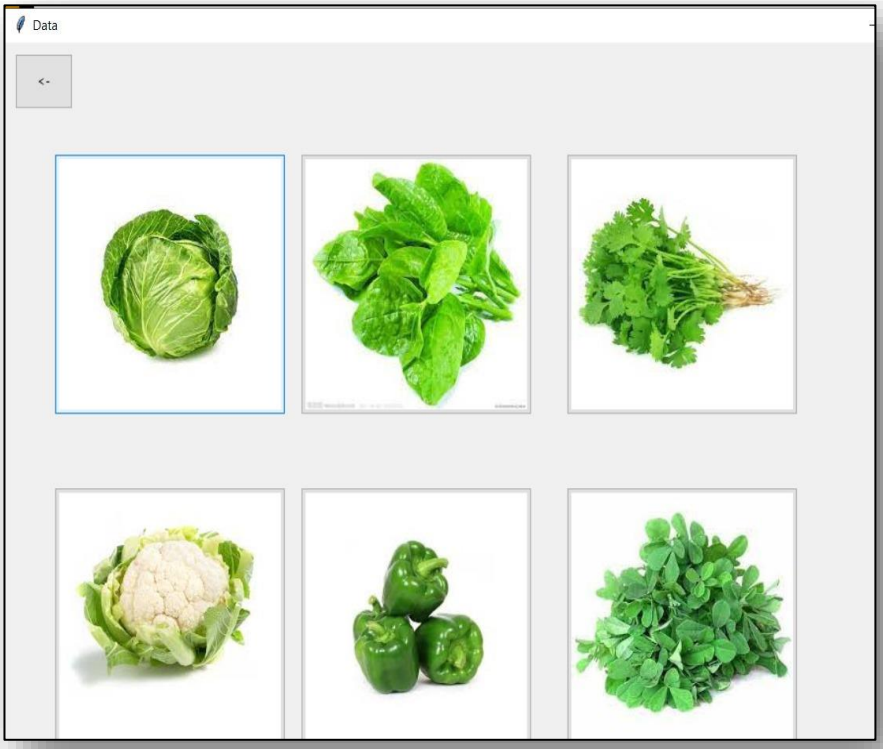
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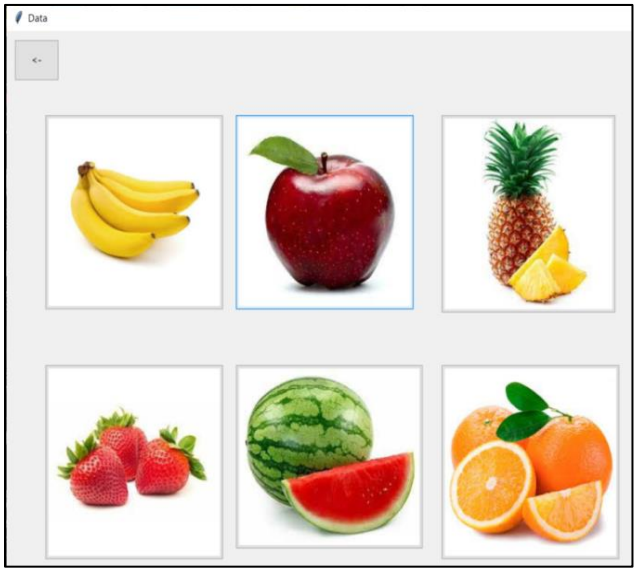
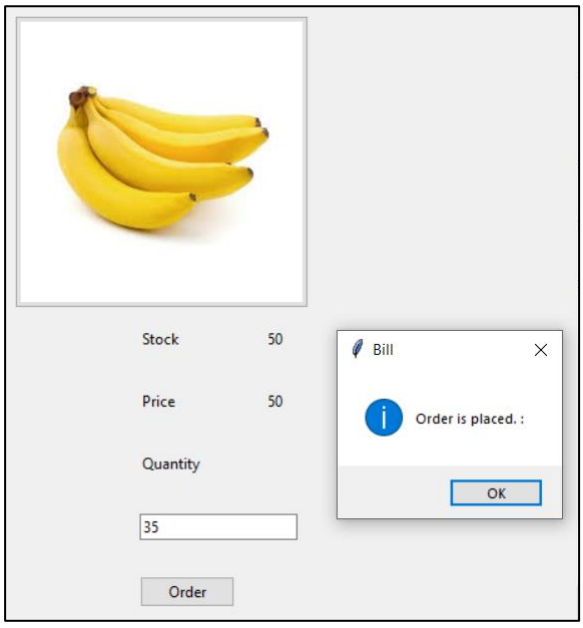
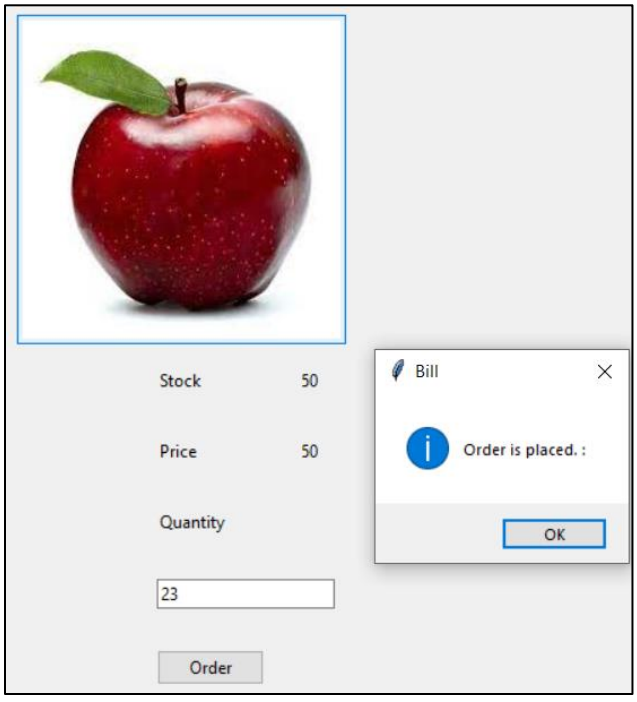
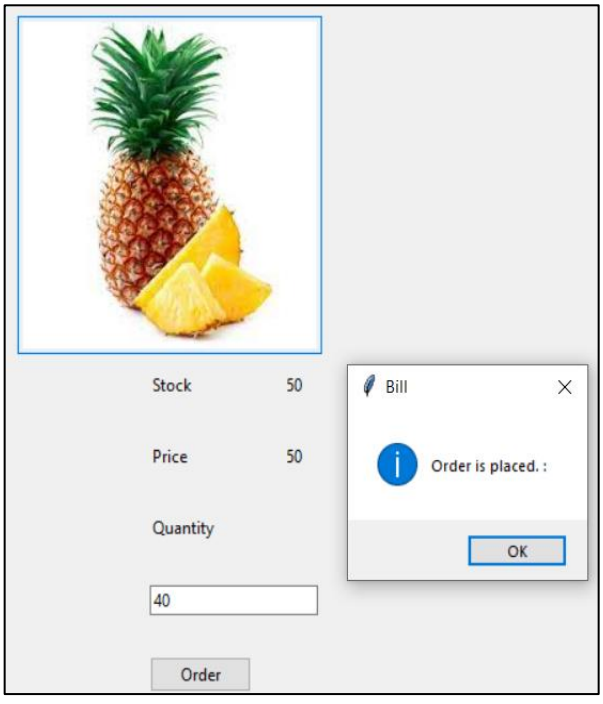
f] Fruits order module:-

In this module all the fruits are displayed from which the customer can choose any one of the available fruits. When the user clicks on any of the images, he will asked to enter the quantity of the fruit for this purpose a new window is displayed which consists of available stock and price of the particular fruit. When user gives the quantity, the bill is generated and displayed alerting to the user that order is placed









5] Technology Selected and Technology features covered:

1. Tkinter:

Tkinter is the standard GUI (Graphical User Interface) library for Python. It provides a set of tools and widgets for building desktop applications with a graphical user interface. Tkinter is simple to use, well-documented, and included with most Python installations, making it a popular choice for developing GUI applications in Python.

2. MySQL Workbench:

MySQL Workbench is a visual database design and management tool developed by Oracle Corporation for working with MySQL databases. It provides a comprehensive set of features to assist database developers, administrators, and analysts in designing, developing, and managing MySQL databases efficiently.

MySQL Workbench is a valuable tool for those working with MySQL databases, whether for development, administration, or data analysis. It streamlines the database design and management processes and helps maintain the performance and integrity of your MySQL databases.

3. PyCharm: PyCharm is an integrated development environment (IDE) specifically designed for Python development. It's developed by JetBrains, a company known for creating various popular IDEs, and it's one of the most widely used Python IDEs in the programming community.It provides database tools for connecting to and querying databases, which is valuable for Python applications that interact with databases.

6] References:

https://www.python.org/

https://www.mysql.com/products/workbench/

https://www.jetbrains.com/pycharm/

https://copyassignment.com/inventory-management-system-project-in-python/