

A Report on Online Grocery Store

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Online Grocery Store

Objective:

Online Grocery Store is Java-Based Application that provides User Friendly Interface through which user can Shopping, Return the bought Item/s and other functionalities. The Objective of the Online Grocery Store is to provide an easy-to-use platform for customers to purchase or deal with items, with features such as return the item/s, getting the bill, delete the row, and read the database.

Technology Used in Project Development:

This project is a Java application that creates a GUI for a Online Grocery Store. The GUI has a Main choice panel having JRadioButton for having one choice only, then registration pages for individual choice panels, in shopping panel there is one frame having grocery item panel that displays a list of grocery items with checkboxes, then there is also a bill frame which gives bill's printout and store the respective customer's detail in store's database, which we can find in database panel the one of choice from main panel, lastly there is one authorized panel for delete any entry from the database. For getting the entry in the authorized page there are admin page also which ask admin name and password to login.

In terms of technology, the project uses Java as the programming language and Swing as the GUI toolkit which provides a set of GUI components for creating desktop applications. The project uses various Swing components such as JFrame, JRadioButton, JCheckBox, JTextField, JButton, JTextArea, JLabel, etc. to create the GUI. The project is also include some concepts like anonymous class, inheritance, Exception handling, JDBC to store the data of customers.

Also we had import some package or we can say library such as Swing, AWT (Abstract Window Toolkit), SQL to access functionality with database, DateTime to get current time with date in Java.

Functional Modules:

We have define nine JFrames in our Project i.e., f, f2, f3, f4, f5, f6, bil, adm, adm2.

- f: a JFrame having choices for functional module like return, shopping, delete record, or read data of customers.
- f2: a JFrame containing Registration Page for shopping the groceries.
- f3: a JFrame containing the list of Grocery Items to select is no. of time.
- f4: a JFrame Registration page for returning the purchased item/s which ask the bill no.
- f5: a JFrame through which we can read the database
- f6: a JFrame is a frame which ask for bill no. for Deleting the bill from database.

- bil: it is a JFrame which gives or Shows the Detailed Bill of the respective consumer with printed Receipt.
- adm,adm2 are two Authorized JFrame which ask admin and password to login in f5 and f6 respectively.

Also we have implements the ActionListener over each button of each JFrame and and ItemListener over each JCheckBoxs in frame f3.

At some place JDialog are used for giving some information/fact or for ensuring message through which we can proceed.

We have created method describes the event for each ActionListener and ItemListener of JFrame; Item Listener generates the anonymous class of each items.

We have use the concept of JDBC to connect the Project with MySQL Database with the help of using four to five steps of connectivity.

We are having 'bil' named JFrame in which after pressing the 'pay' button we're comes to know the concept of printing the Bill of customer in the pdf format using the class Print frome awt(provide PrintJob, Graphics, Print, etc).

Advantages:

- We can order grocery items from home.
- It is useful to keep the data of customers in database with efficient manner.
- There is no crowd problem (physically we do not need to be present at there).
- If any issue occurs from customer side related to money, then the Customer's entry solves the issue effectively.
- If we're not finding the item properly as we are wish to , then we can return it by using the returning feature of Online Grocery Store.

Screen-shots:

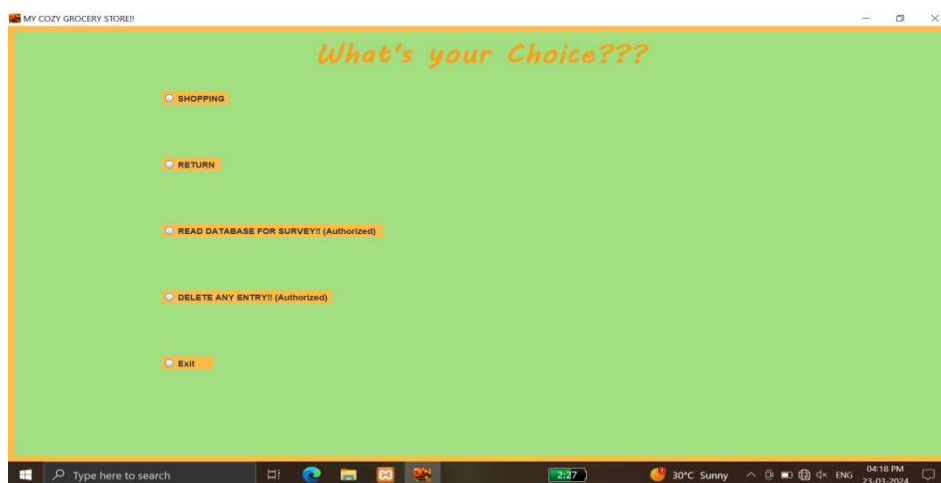


Fig.1: First frame for Shopping or Returning or Read the Data or Delete the Data.

Fig.2: Registration Page for Shopping.

Fig.3: JFrame having List of Grocery Items with JCheckBoxes and JTextFields.

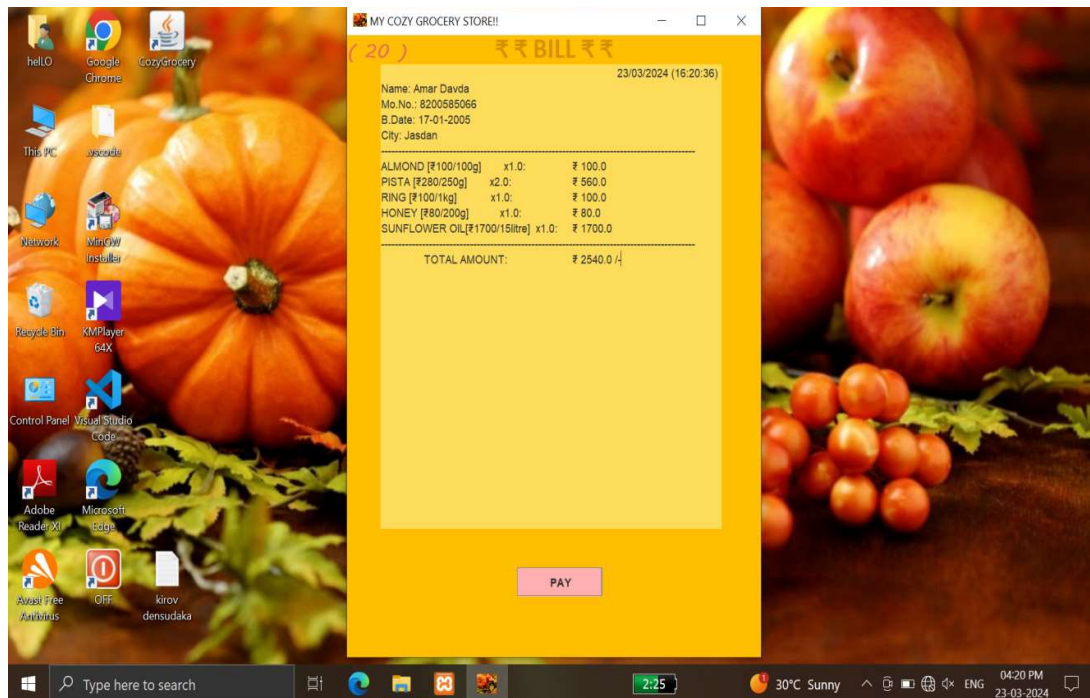


Fig.4: Bill Format with Full Detail with PAY Button.

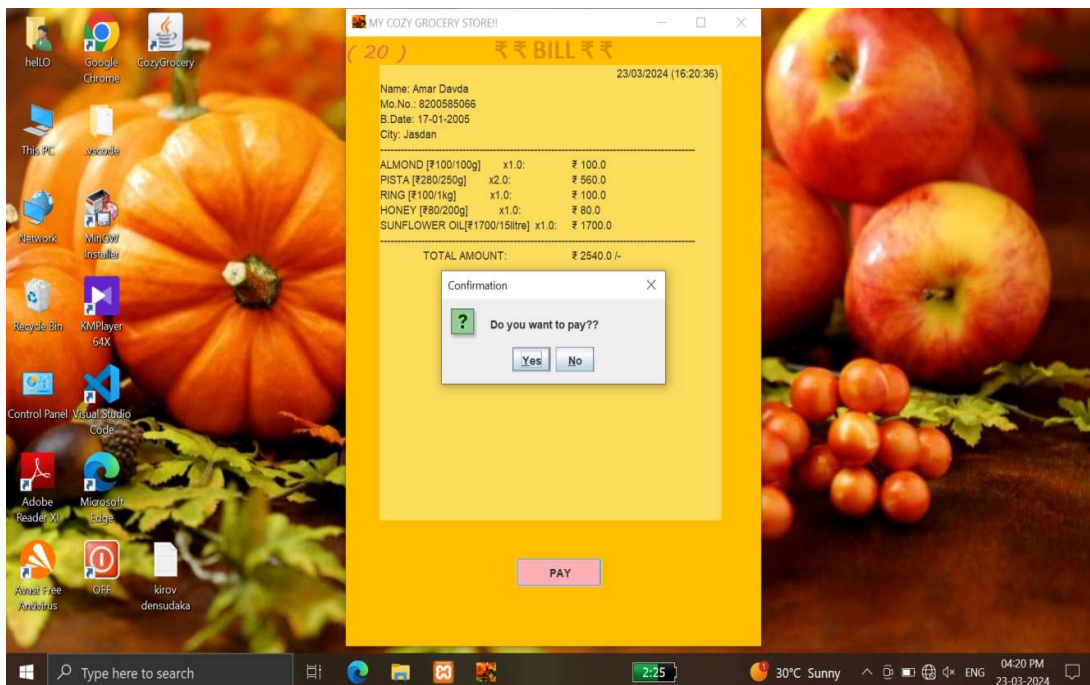


Fig.5: On Clicking PAY Button, it ensures the payment process.

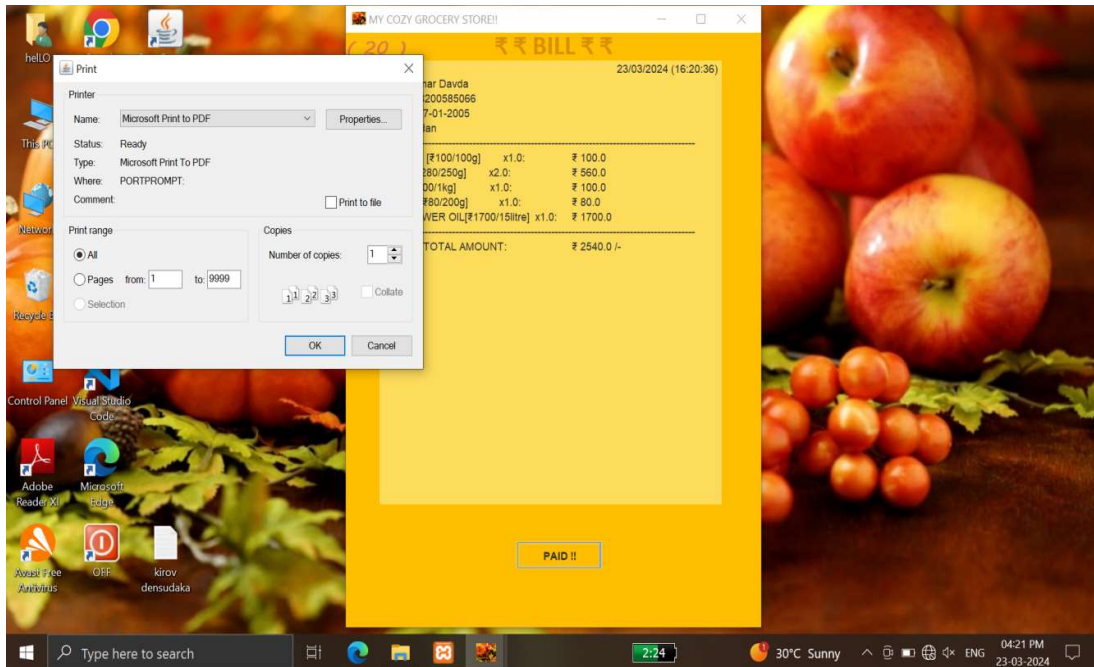


Fig.6: On Clicking Yes, it will give you printing options for selection.

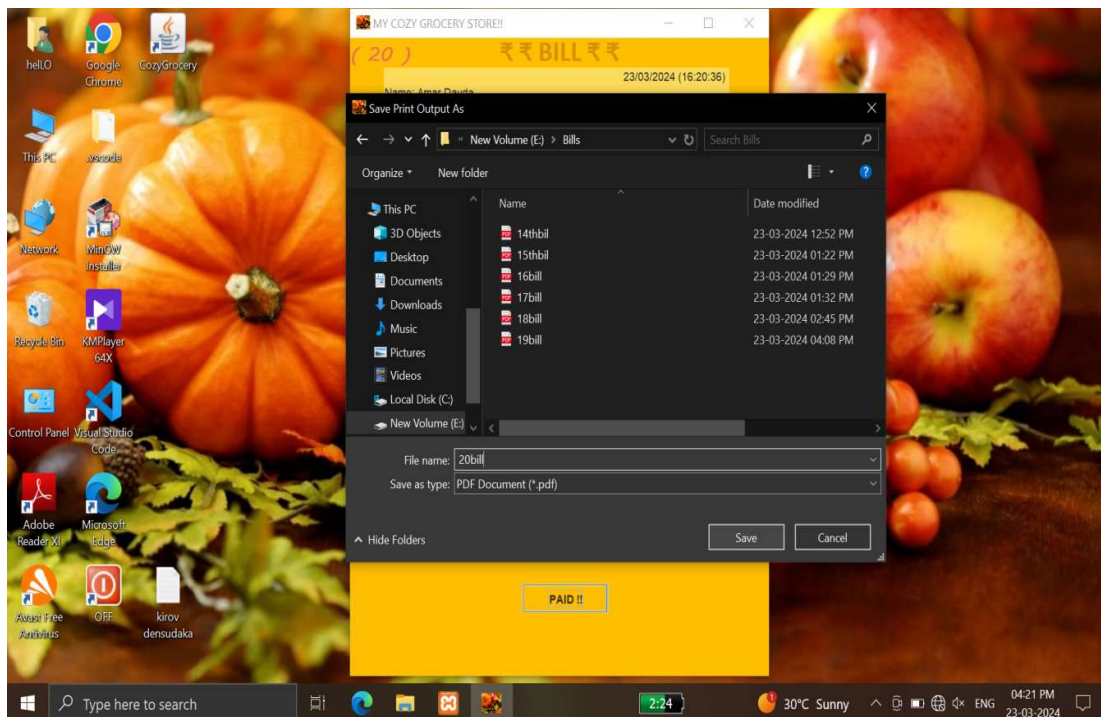


Fig.7: We are saving it into PDF format.

MY COZY GROCERY STORE!!

< RETURNING PAGE > 3/03/2024 (16:25:24)

Enter your Bill_No.:
20

Enter your Name:
Amar

Enter your Mobile-Number:
8200585066

What's your return item/s??
PISTA(250g)

Total price of the returning item/s:
280

BACK RETURN

Fig.8: Registration page for Returning the Item/s, we have bought.

MY COZY GROCERY STORE!!

< RETURNING PAGE > 3/03/2024 (16:25:24)

Enter your Bill_No.:
20

Enter your Name:
Amar

Enter your Mobile-Number:
8200585066

What's your return item/s??
PISTA(250g)

Total price of the returning item/s:
280

BACK RETURN

Confirmation
Are you Sure, you want to Return it??
Yes No

Fig.9: On clicking the RETURN Button, it will ensure that you want to return, finally.

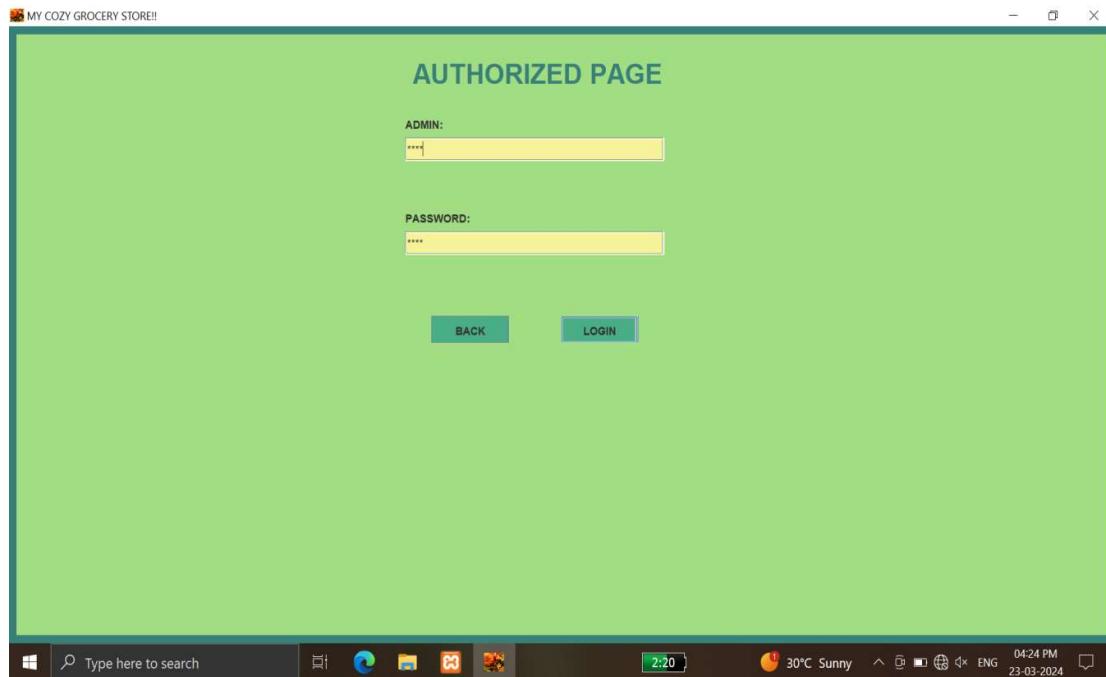


Fig.10: Authorized Page for entering the Database page to read it, and it ask for AdminName and Password.

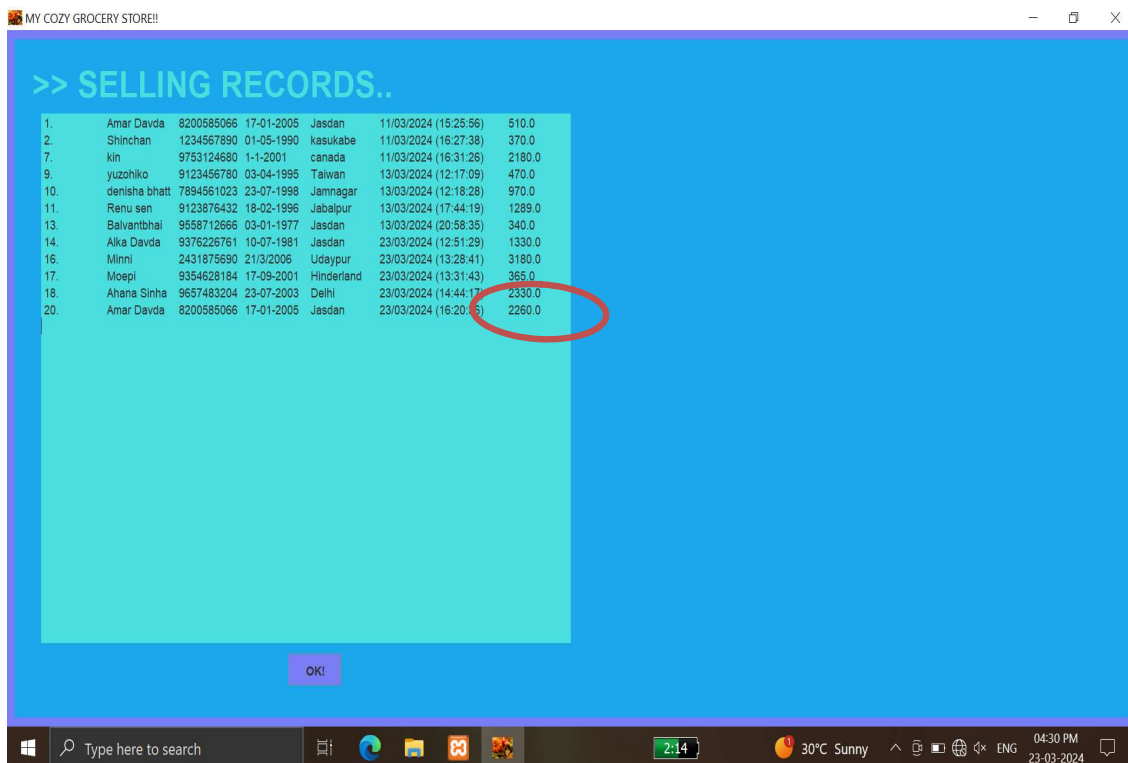


Fig.11: We can see that after returning the item, the bill amount is decrease from actual bill amount; before return it was ₹2540.

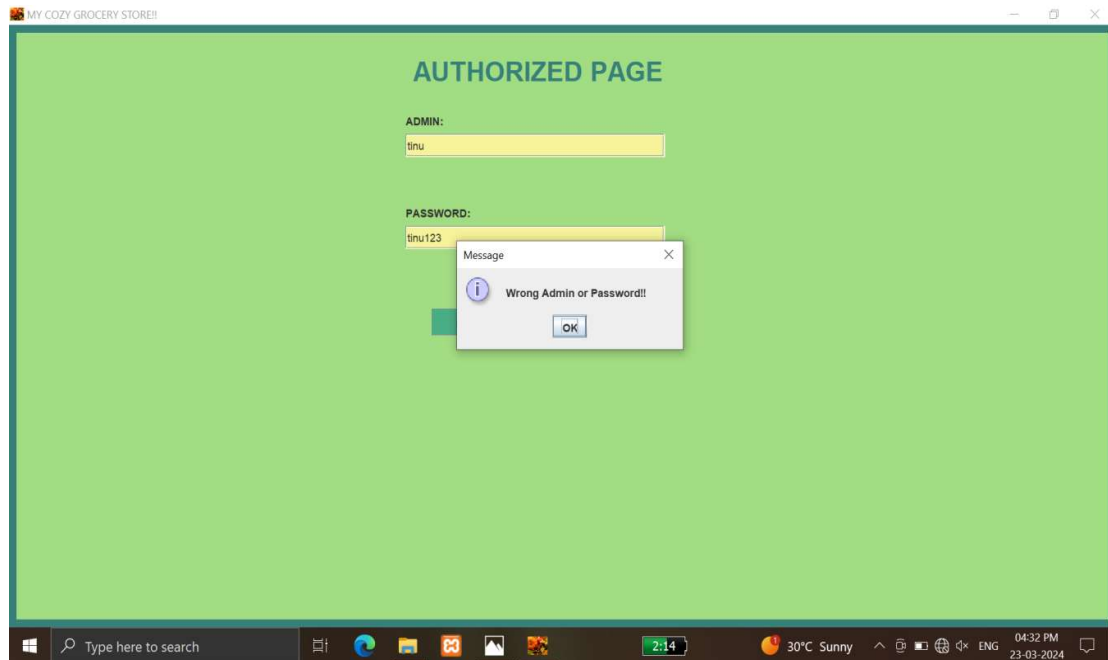


Fig.12: There is also Admin Page to delete the Record, if we enter the wrong password or admin name then it'll show the dialog pane as show in figure.

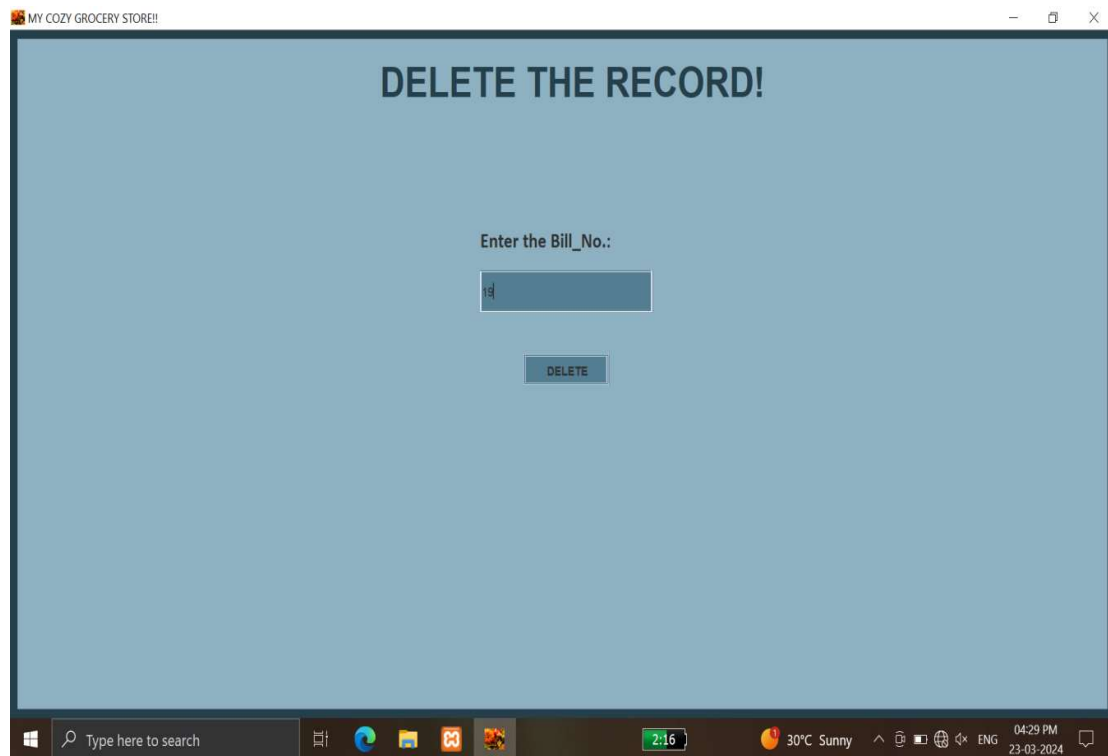


Fig.13: This frame ask for bill no. that which record you want to delete.

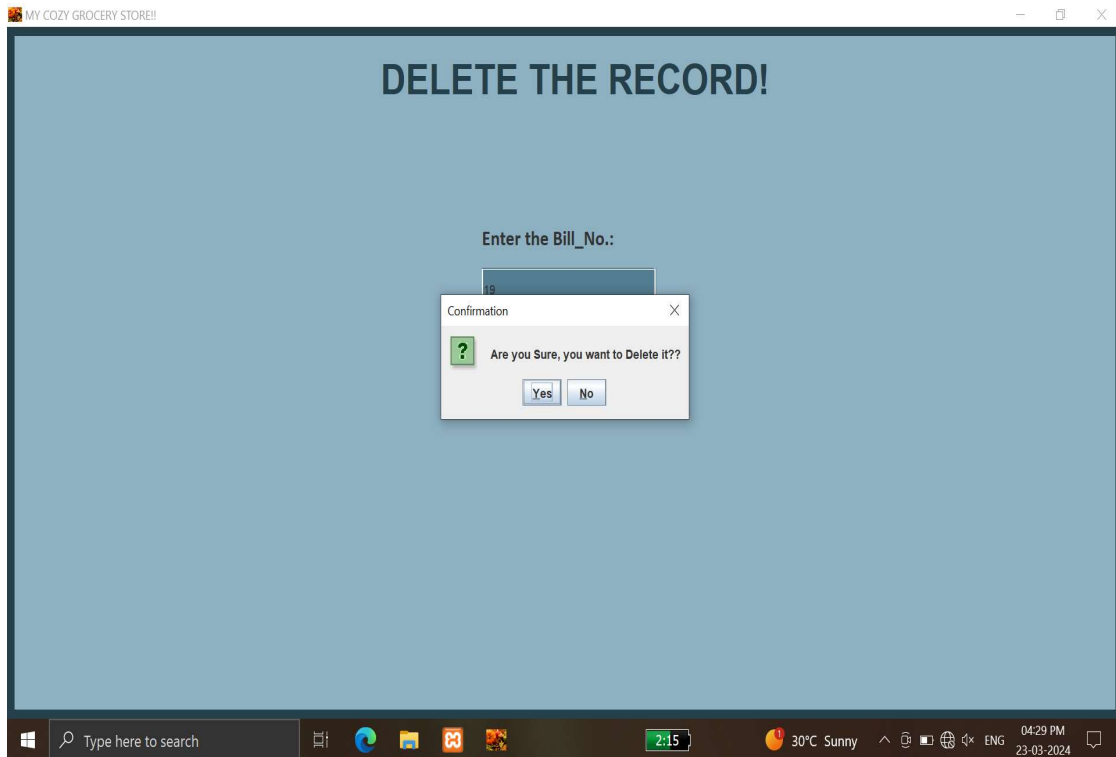


Fig.14: On clicking the DELETE Button it will ensure you for delete the record.

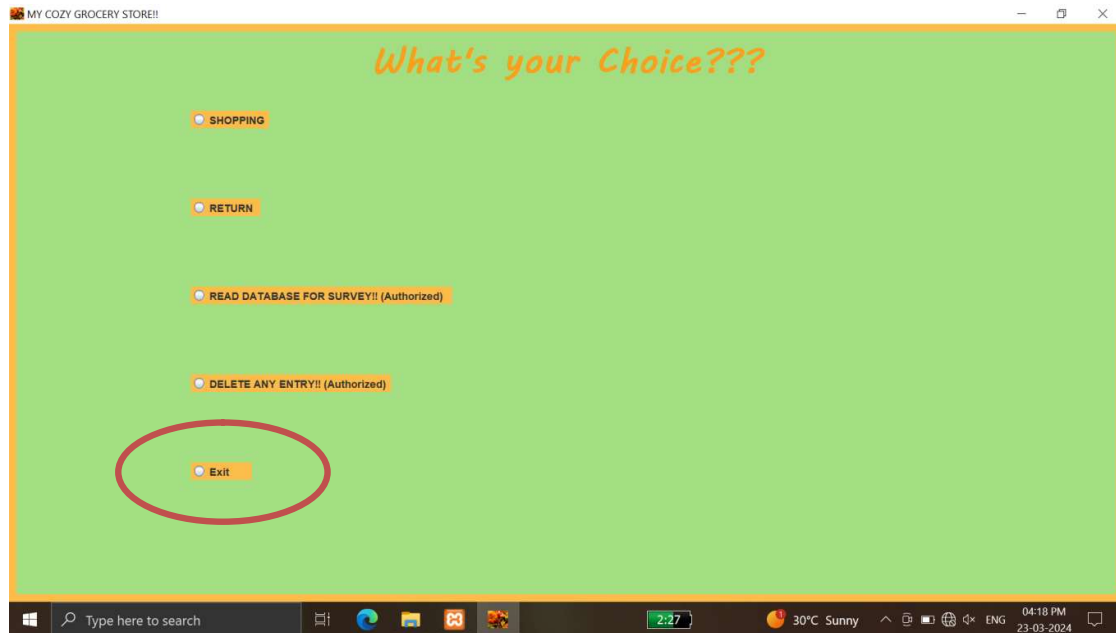


Fig.15: We are having Exit Button to exit from the Java Application.

References:

1. For all the Java Swing Components like JFrame, JButton, JCheckBox, JTextField, JRadioButton, JLabel, JTextArea, I have used the JavaTpoint:-
<https://www.javatpoint.com/java-swing> .
2. For the Logic and Code of 'Printing the Bill' is referred from:
<https://youtu.be/ivSPqBGT4EQ> .
3. I have connect the database with my Project:
<https://images.app.goo.gl/iNtLLLj3ST6s7Lpx6> .
4. In my Project, I've also use the Date and Time package to access the Current Time and Date: <https://www.geeksforgeeks.org/java-current-date-time> .
5. Main thing like heart of Project ,i.e., ActionListener and ItemListener are used in project with all JButton, JCheckBox ,JDialogBox, 'JFrame to Another JFrame' are referred from the YouTube Channel: "Mukul Saini Skills"; their videos are help me in very efficient way in my Project.