

## **Laxmi Honey Industry E-commerce System**

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ST4008CEM Computing Activity Led Learning Project 1

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### Introduction

The objective of this backend is to build a secure and efficient CRUD application for user signup, user login, managing products, adding product to cart, placing orders in Laxmi Honey Industry E-commerce System using Python. The backend adheres to best practices from the development phase of agile methodology.

### **Backend (Crud Application)**

Backend for Laxmi Honey Industry E-Commerce System is a system that is designed to effectively handle the basic activities of adding, removing, updating and deleting (CRUD) user's data, products data, orders. The system uses SQLite 3 for (CURD) operation in this system for storing data permanently, retrieving data, updating data, etc. Likewise it also has one databse having different tables user, products , cart items , orders etc. It also has different functions which performs different task such as handle transactions , adjust quantity in cart , placing orders and uploading profile pictures etc

## **Products Management GUI**

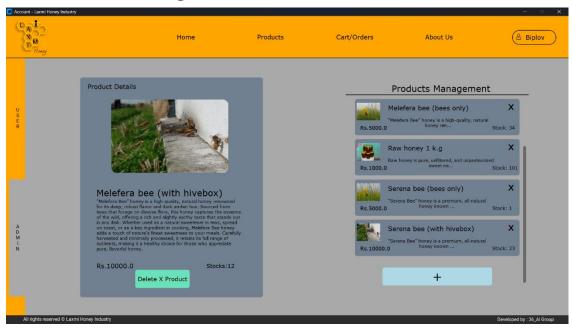


Figure 1

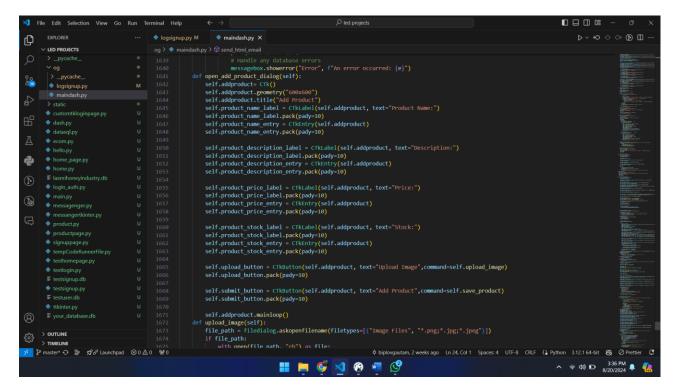


Figure 2

### Products management backend code for deleting product

Figure 3

# Products page GUI for displaying products to user for adding to cart

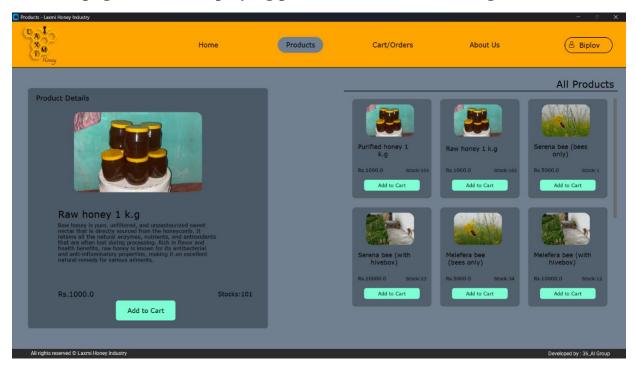


Figure 4

## Displaying products using loop code

```
Tile Edit Selection View Go Run Terminal Help
                                                                                                                                                                                                                                      maindash.py ×
                                                                                                                                                                                                                                             ▷ ∨ ≪ ⇔ ⊹ ⊕ 🖽 ⋅

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                                                                      def display_products(self):
    products = self.products
    user = self.user
    card_width = 200
          maindash.py
                                                                            card_height = 250
padding_x = 20
padding_y = 20
start_x = 20
                                                                            start_y = 20

x_offset = card_width + padding_x

y_offset = card_height + padding_y

random.shuffle(products)
         hello.py
÷
                                                                          width-card_width,
height-card_height,
fg_color="#526060",
corner_radius=10,
                                                                                                                         border_color="gray",
hover_color="8526660",
command=lambda p=product: self.show_product_details(p)
                                                                                  self.product card.place(x=x, y=y)
                                                                                  image_data = product[2]
image = Image.open(io.BytesIO(image_data))
# Resize image to fit label dimensions
label_width = 150
label beight = 160
> OUTLINE
       > TIMELINE
  P master* ← D SS SS Launchpad ⊗ 0 🛆 0 😾 0
                                                                                                                                                    ♦ biplovgautam, 2 weeks ago Ln 24, Col 1 Spaces: 4 UTF-8 CRLF () Python 3.12.1 64-bit 🗞 ⊘ Prettier 🚨
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#### Figure 5

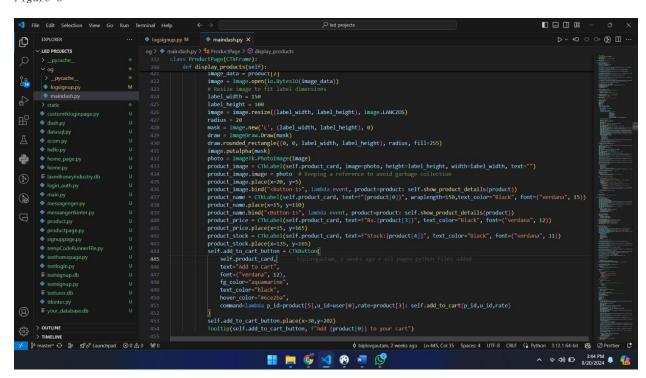


Figure 6

### **Version Control**

 $\label{limits} GitHub: $\underline{$https://github.com/biplovsoftwarica/Tkinter-laxmi-honey-industry/tree/master}$$ 

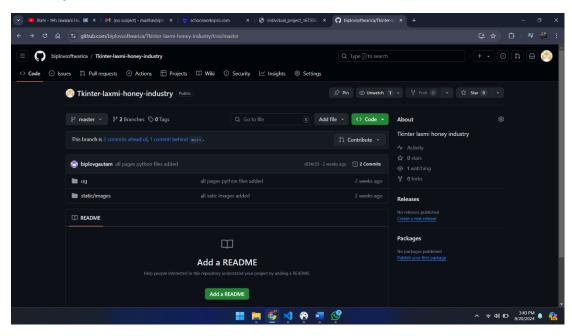


Figure 7

### Conclusion

Based on the prototype I made the backend of our project named "Laxmi Honey Industry e-commerce system" using sqlite3 to store the data in the database. It includes the CRUD operation of adding, updating, retrieving and deleting of the data. I did the backend part so it is linked to the graphical user interface (GUI) of our project.

Although this is the first time of me to make a properly functioning software, so it took me a lot of time and efforts to it. Many problems arise during the development phase of the project, so I took the help from the e books, related articles. I even consulted with my course teachers for the solution of the project.

Via this project, I got to know about the difficulties on making a properly fully functioning software. Never giving up is the key for the development of the software.