



ICE CREAM SHOP INSIGHTS

PROBLEM STATEMENT



Current manual sales tracking is time-consuming and prone to errors.



Difficulties in accessing and analyzing sales data lead to delays in decision-making.



Lack of real-time data analysis hinders responsive action to market demands.

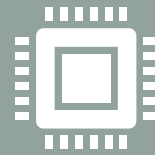


Goal: Develop an automated system to streamline sales data recording and provide actionable insights.

PROPOSED SOLUTION



A robust, web-based application designed to automate and enhance operational efficiency.



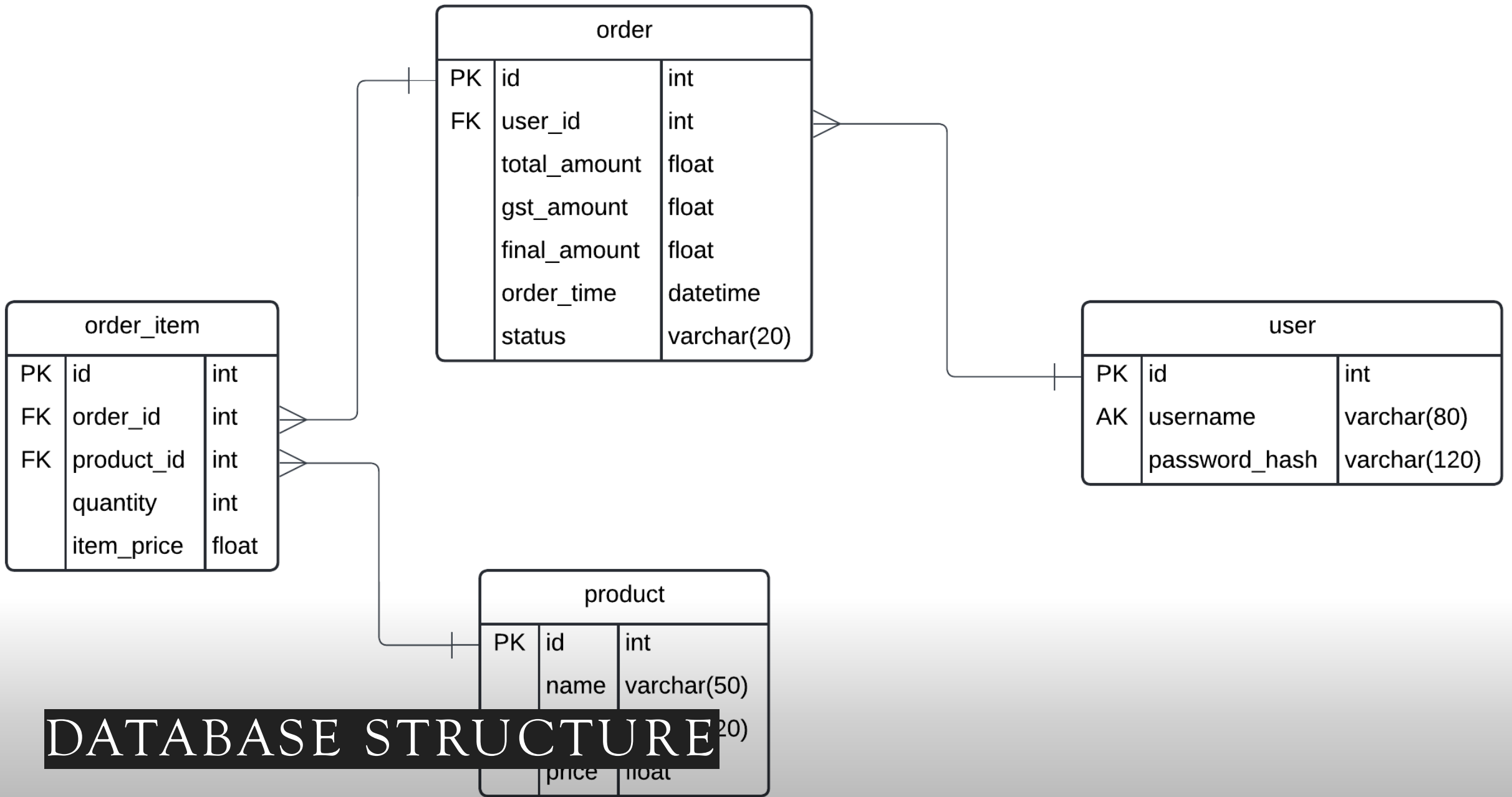
Features include real-time sales tracking, invoice generation, an analytics dashboard, secure user authentication, and product performance analysis.



Special focus on creating new orders/invoices seamlessly within the system.

SYSTEM REQUIREMENTS

- **Hardware:** Essential hardware includes a server with at least an Intel Core i5 processor, 8GB RAM, and 100GB HDD for optimal performance. Client devices require stable internet access and should support modern web browsers.
- **Software:** The system is platform-independent, supporting all major operating systems such as Windows, macOS, and Linux. It leverages several key software technologies:
 - **Backend:** Python 3.8+, Flask for the server-side logic, Flask-SQLAlchemy for database interactions, and mysql-connector-python for connecting to the MySQL database.
 - **Frontend:** Employs HTML5 and CSS3 for structure and styling, JavaScript for interactive elements, and Bootstrap for responsive design. Google Charts is integrated for sophisticated, real-time data visualizations.

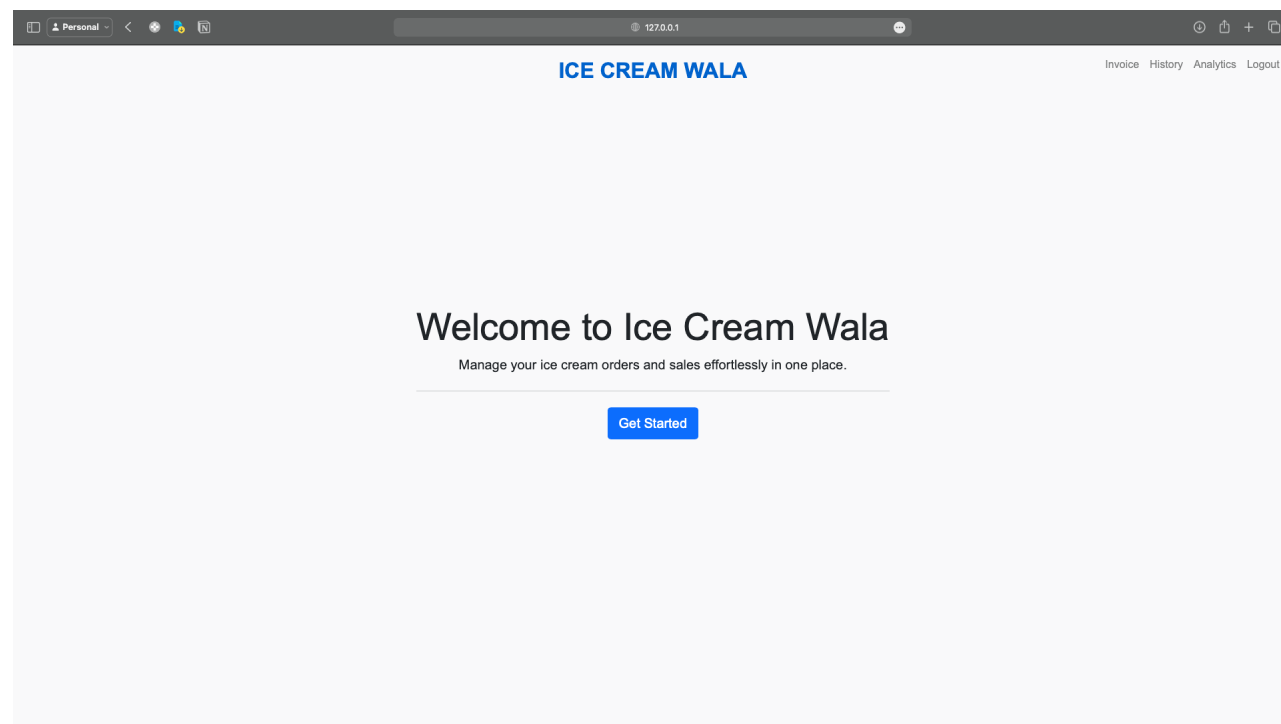


DATABASE STRUCTURE

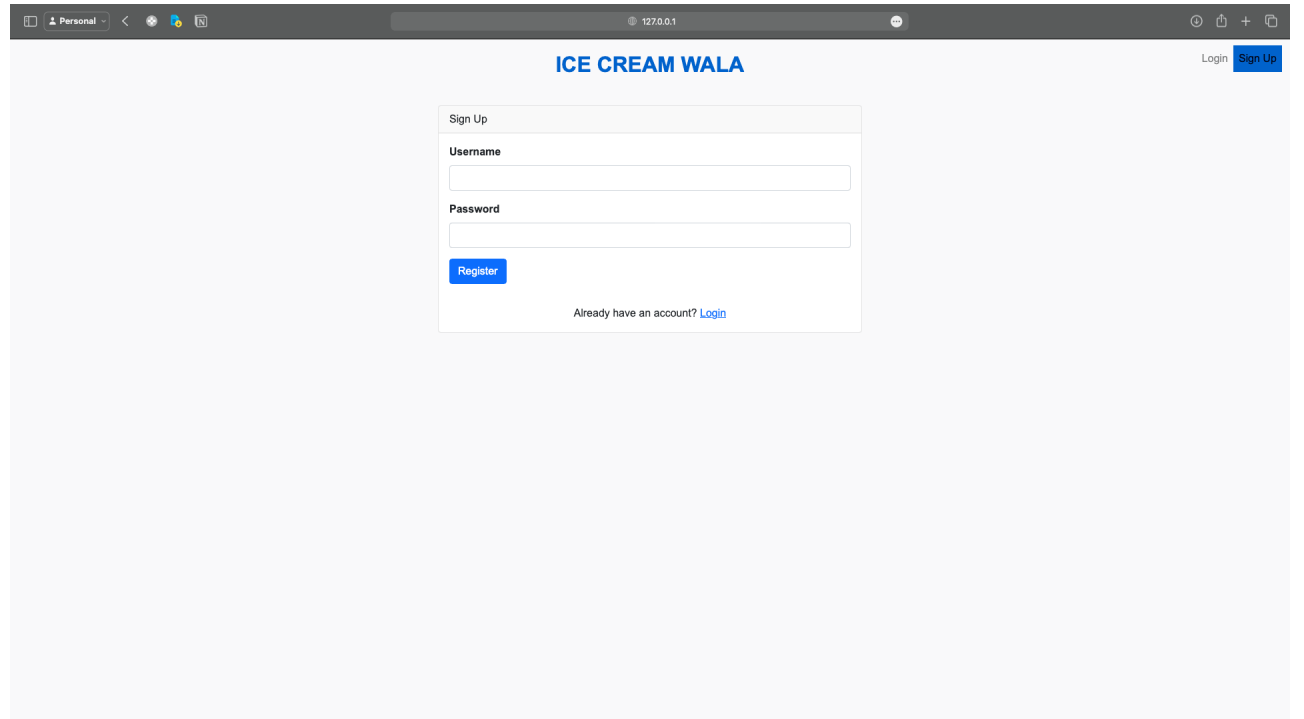
ENTITIES EXPLAINED

- **User:** Handles data related to system users including administrators and staff, with fields for authentication.
- **Product:** Catalogs available products, detailing their specific attributes like size and price.
- **Order:** Records transaction details, linked to users and consisting of multiple order items.
- **OrderItem:** Connects products to their respective orders, tracking quantities sold and prices.

RESULTS – LANDING PAGE



RESULTS – SIGNUP PAGE



A screenshot of a web browser displaying the 'ICE CREAM WALA' Sign Up page. The browser's address bar shows '127.0.0.1'. The page has a light gray background. At the top right, there are links for 'Login' and 'Sign Up'. The 'Sign Up' form is centered and contains two input fields for 'Username' and 'Password', followed by a blue 'Register' button. Below the button, there is a link that says 'Already have an account? Login'.

ICE CREAM WALA

Login Sign Up

Sign Up

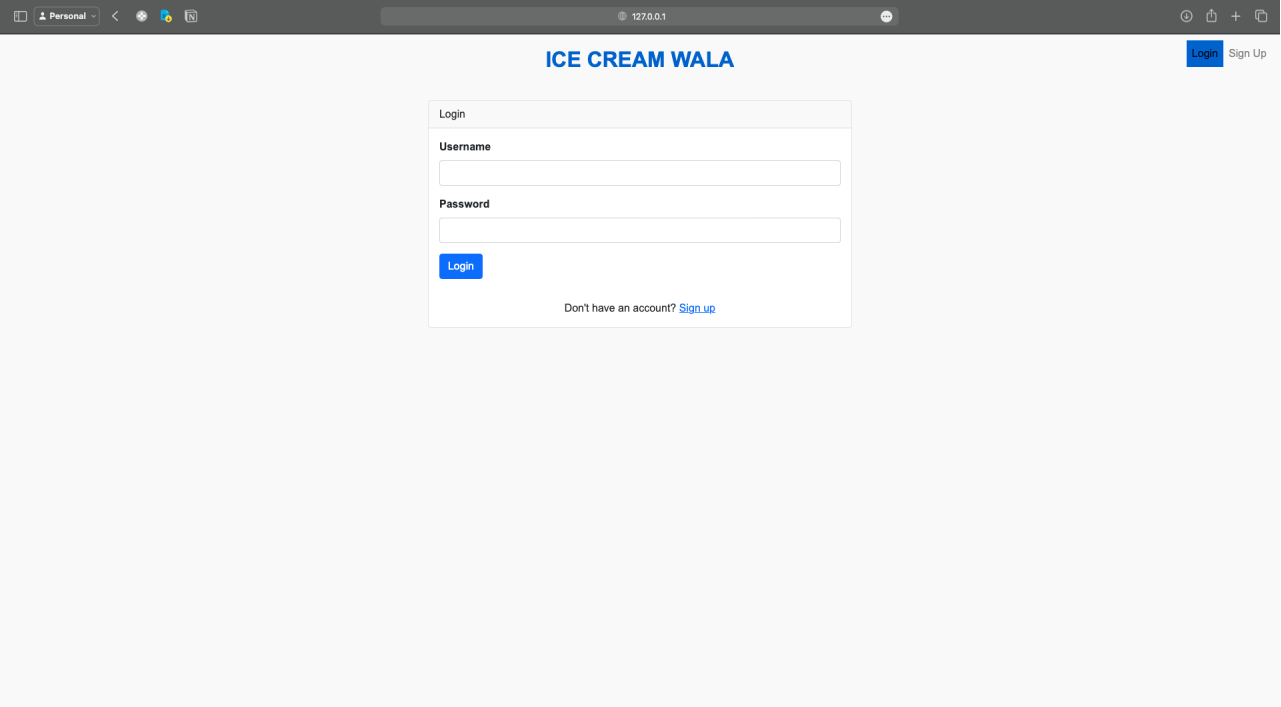
Username

Password

Register

Already have an account? [Login](#)

RESULTS – LOGIN PAGE



The screenshot shows a web browser window with the address bar displaying "127.0.0.1". The page title is "ICE CREAM WALA". In the top right corner, there are links for "Login" and "Sign Up". The main content area features a login form with the following elements:

- A header "Login" above the input fields.
- A label "Username" above a text input field.
- A label "Password" above a text input field.
- A blue "Login" button.
- A link "Don't have an account? [Sign up](#)" below the button.

RESULTS – INVOICE PAGE

Personal

127.0.0.1

🕒 ⬆️ ⬆️ ⬆️

ICE CREAM WALA

InvoiceHistoryAnalyticsLogout

Create New Order

Create New Order

Product

Soda

Size

Standard - \$4.0

Quantity

Add Item

Order Details:

Product	Size	Price	Quantity	Subtotal
Smoothie	Small	\$10.0	2	\$20.00
Water Bottle	Standard	\$3.0	1	\$3.00
Soda	Standard	\$4.0	1	\$4.00

Payment Method: ☒ Cash ☐ Card

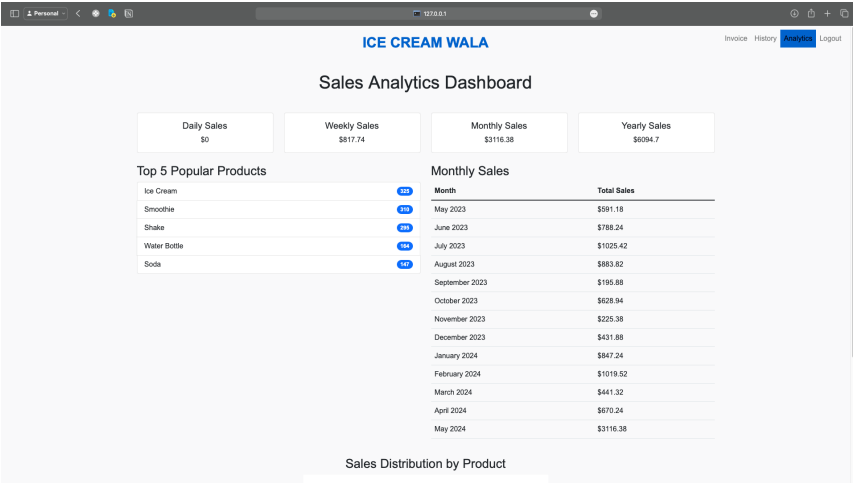
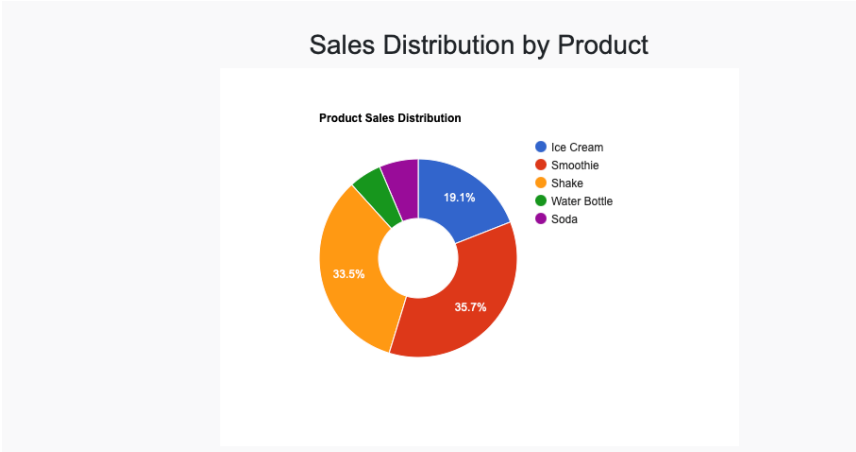
GST (18%): \$4.86

Grand Total: \$31.86

Complete Order

RESULTS – HISTORY PAGE

Personal				
127.0.0.1				
ICE CREAM WALA				
Invoice History Analytics Logout				
Order History				
Order Placed on: 2024-05-06 23:47:42				
Order Details				
Product	Size	Price	Quantity	Subtotal
Ice Cream	Medium	\$5.0	5	\$25.0
Total Price: \$25.0				
GST: \$4.5				
Grand Total: \$29.5				
Order Placed on: 2024-05-06 23:47:42				
Order Details				
Product	Size	Price	Quantity	Subtotal
Shake	Small	\$10.0	9	\$90.0
Ice Cream	Medium	\$5.0	10	\$50.0
Water Bottle	Standard	\$3.0	9	\$27.0
Shake	Large	\$11.0	8	\$88.0
Ice Cream	Medium	\$5.0	3	\$15.0
Total Price: \$270.0				
GST: \$48.6				
Grand Total: \$318.6				
Order Placed on: 2024-05-06 23:47:42				



RESULTS - ANALYTICS PAGE

CONCLUSION



Enhanced operational efficiency and strategic insight.



Improved product management and decision-making capabilities.



Robust security features ensuring data integrity and scalability.