



MAPÚA MALAYAN COLLEGE
MINDANAO

AUTOMATING BUSINESS OPERATIONS
FOR ENHANCED EFFICIENCY:

A CASE STUDY ON DARS BBQ

Presentation by:
JMG GROUP





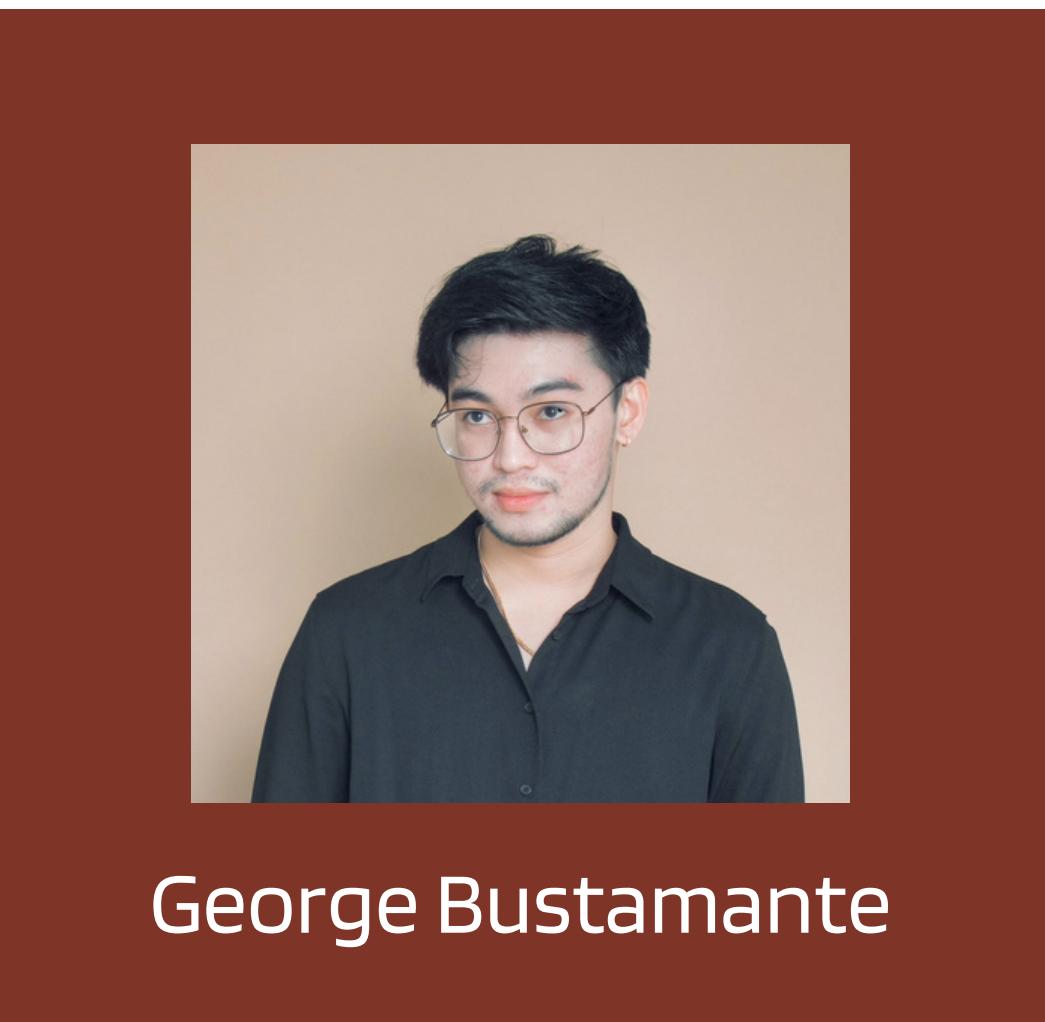
Introduction

The JMG Group will deliver the final M3 presentation for the IT101-2P course, titled "Automating Business Operations for Enhanced Efficiency: A Case Study on Dar's BBQ."

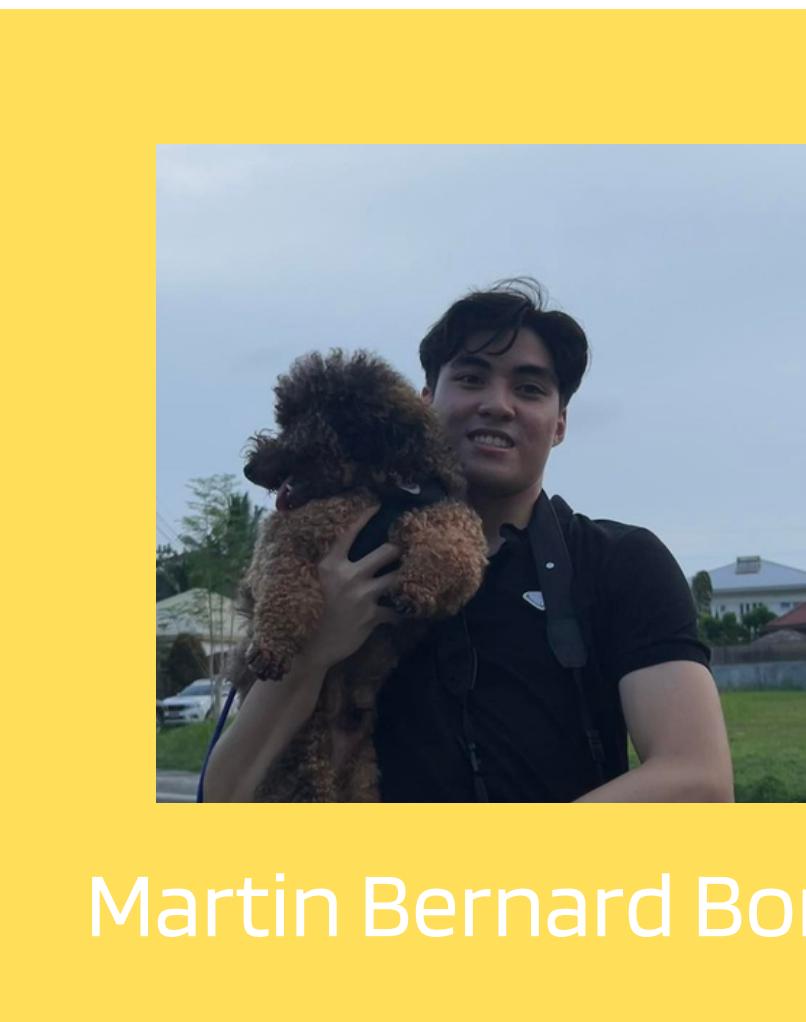
Our Team



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Introduction:

In the fast-paced and competitive food market, firms are increasingly being forced to innovate and streamline their operations. Dars BBQ, a new firm, has carved out a niche for itself with successful commercial operations. Despite its gains, the company's reliance on traditional techniques for Manual Restocking, employee supervision, and inventory management has emerged as a significant barrier in operational efficiency. This study tries to identify these difficulties and offer a modernized management system to effectively solve them.





Problems encountered with current/existing approaches:

The Restocking Manually



Utilizing traditional, manual methods for inventory restocking results in inefficiencies and errors, which can diminish the quality of customer service and potentially decrease revenue.

Limited Employee Supervision



The absence of an organized employee management system previously hindered the monitoring and evaluation of staff performance, negatively impacting service consistency and operational efficiency.

Inefficient Inventory Management



Manual inventory management is prone to inaccuracies, resulting in either surplus stock, stockouts, or unnecessary waste, all of which have an impact on profitability.



Proposed System:

To address these issues, the implementation of a technologically advanced management system is proposed. This system's interface will be designed with Java Swing, and it will provide CRUD functions for efficient data administration.

The solution contains:

The Restocking Management Module



is crafted to streamline the process of inventory replenishment, tailoring stock levels according to demand forecasts, and managing supply chain transactions, all focused on enhancing the efficiency of inventory control.

Employee Supervision Module



is designed to add, edit, delete, and rank employee details, streamlining the management of staff information. Additionally, this module serves as an emergency contact database for employees, enhancing workplace safety and communication.

Inventory Tracking Module



Provides accurate, real-time insights into stock levels, allowing for timely inventory restocking and reducing waste.

GUI IMPLEMENTATION

The Dar's BBQ Management System's GUI, constructed using Java Swing, stands as a pivotal enhancement in user experience and operational efficiency for the business. Its intuitive design facilitates easy navigation and access to various system modules, including employee management, inventory, sales reports, and the newly added account management and sign-in and sign-out features, ensuring a seamless interaction for all users, from staff to managers. The main menu, serving as the central hub, is meticulously organized to allow quick access to all functions, thereby optimizing business activities and boosting productivity. Additionally, the system's architecture is designed to be scalable and modular, easing maintenance and future updates. Each module, including Account Management, Inventory, Employees, Product Menu, and Restock History, operates independently, enhancing system stability and simplifying the update process. With CRUD actions integrated into every module for efficient and user-friendly data management, the system exemplifies a sophisticated combination of advanced technology and design principles, setting a new standard for automation in the food industry and affirming the company's commitment to embracing cutting-edge technologies to adapt to the evolving business needs.





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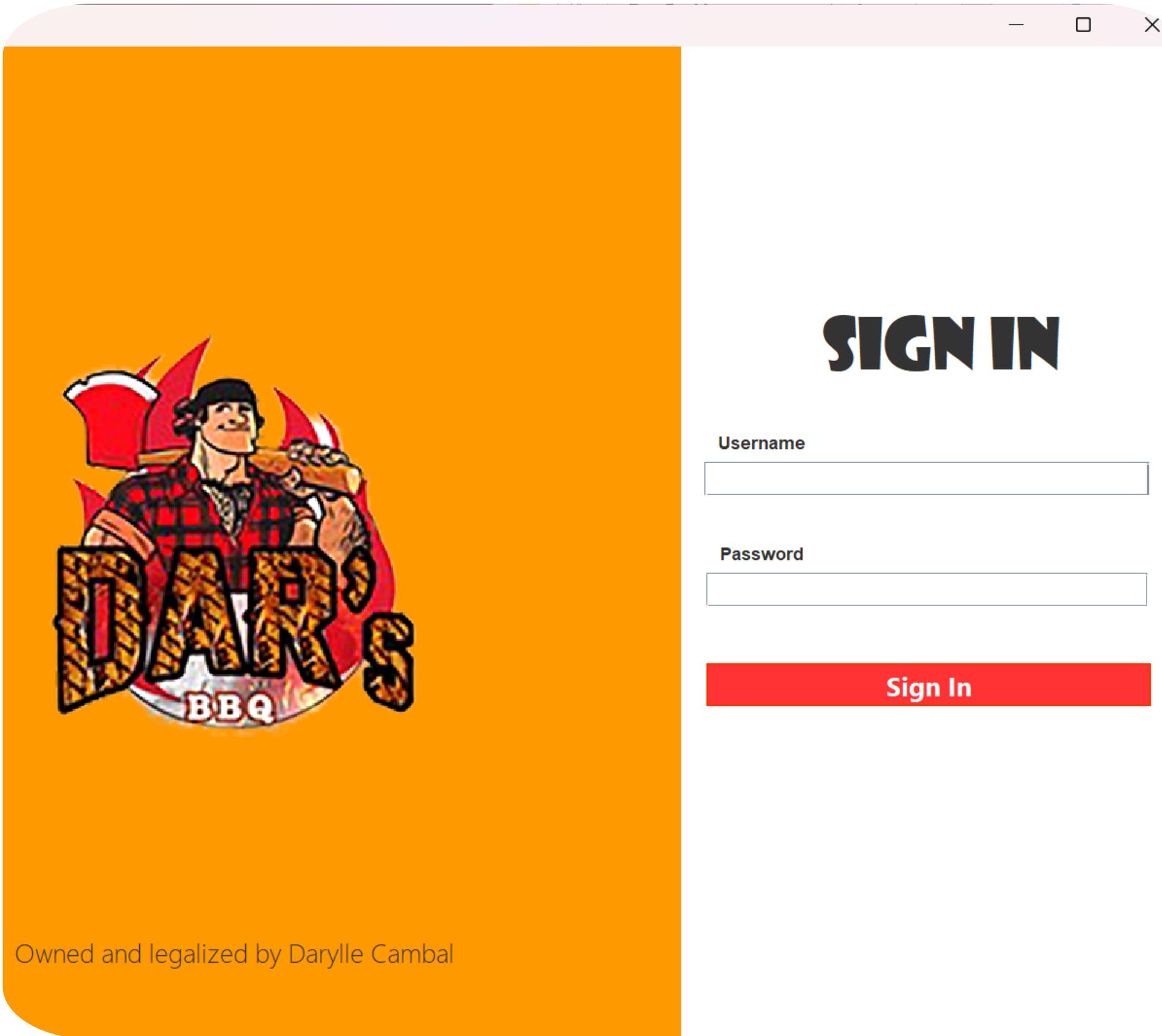
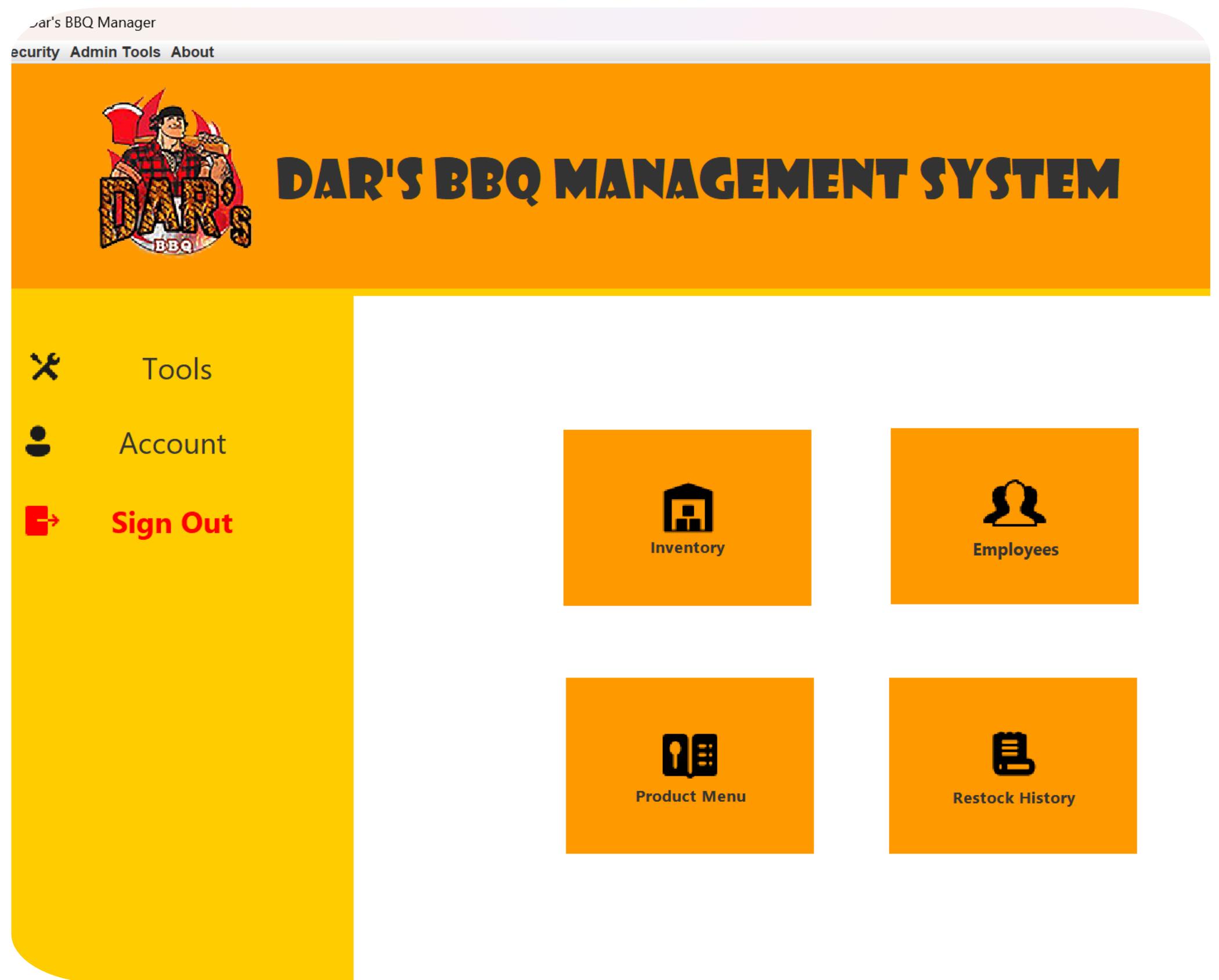


FIGURE 1. LOG-IN MENU

Owned and legalized by Darylle Cambal



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A screenshot of the Dar's BBQ Management System main menu. The header features the college logo and the text "DAR'S BBQ MANAGEMENT SYSTEM". The left sidebar includes links for "Tools", "Account", and "Sign Out". The main content area displays five orange buttons with icons and labels: "Inventory" (building icon), "Employees" (person icon), "Product Menu" (fork and knife icon), and "Restock History" (list icon).

- Tools
- Account
- Sign Out**

Inventory Employees

Product Menu Restock History

FIGURE 2. MAIN MENU



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Employee Manager

EmployeeNum	EmployeeId	LastName	FirstName	DateOfBirth	JobTitle	Dept
	00001	Cambal	Darylle Arne	Single	Administration	asdadasdsad
	12345	asdasd	asdada	Single	adasdad	sadadasd

12345

Name	asdasd, asdada
Date of Birth	2024-03-08
Gender	Male
Marital Status	Single
Address	sadadasd
Contact#	asdasd
Email	asdadasda
Department	adasdad
Job Title	adasdad
Date of Employment	2024-03-05
Work Email	adadsad
Work Phone#	adasdasda
<input checked="" type="checkbox"/> Account	
Username :	notAdmin
Password :	*****
Confirm Password :	
<input type="checkbox"/> Admin Privileges	
Delete	

FIGURE 3. MANAGER MENU ACCOUNT



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Dar's BBQ Manager

Security Admin Tools About



DAR'S BBQ MANAGEMENT SYSTEM

Tools

Account

Sign Out

Cambal, Darylle Arne

Date of Birth	Position	Username
2024-03-19	CEO	DarCambal
Gender	Department	
Male	Administration	

Personal Contacts
asdasdasda@asd.com
09123123123

Work Contacts
asdasdasd@asda.com
0918236123

FIGURE 4. ACCOUNT MENU



Jar's BBQ Manager

Security Admin Tools About

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ItemId	Name	Weight	Stock
4	Chicken Meat	1 Kg	20

Inventory Id

Name	Description	Weight	Stock

Remove Edit

The screenshot shows a software interface for managing inventory. On the left, there is a table with columns: ItemId, Name, Weight, and Stock. A single row is selected, showing ItemId 4, Name 'Chicken Meat', Weight '1 Kg', and Stock '20'. On the right, a detailed view for 'Inventory Id' is displayed. It has two sections: one for 'Name' and 'Description' (both empty), and another for 'Weight' and 'Stock' (both also empty). At the bottom, there are 'Remove' and 'Edit' buttons.

FIGURE 5. INVENTORY MENU



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Dar's BBQ Manager

Security Admin Tools About

Inventory Details

Name :

Description :

Weight : Stock :

Cancel **Add**

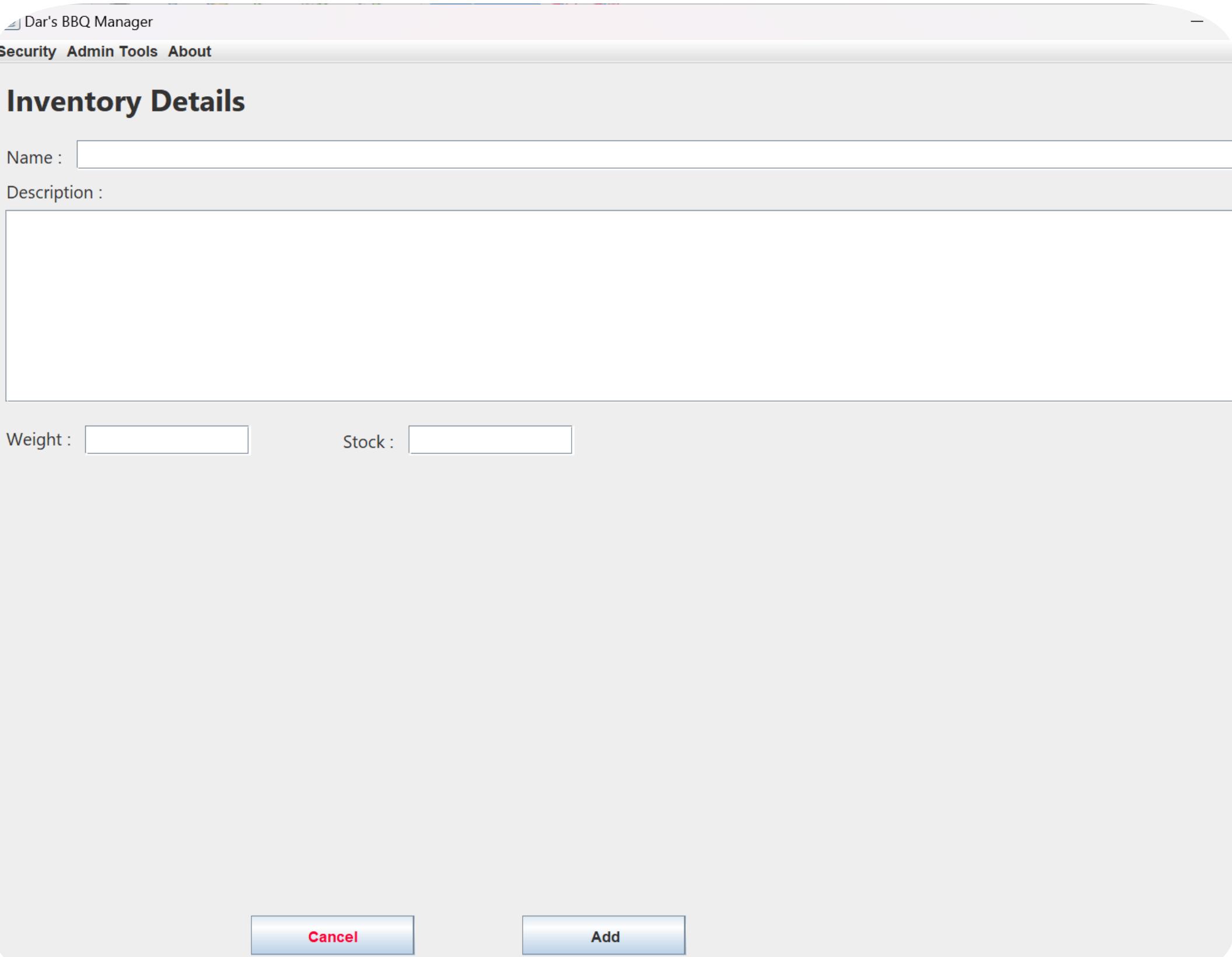


FIGURE 6. INVENTORY DETAILS MENU



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Bar's BBQ Manager

Security Admin Tools About

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EmployeeNum	EmployeeId	LastName	FirstName	DateOfBirth	JobTitle	Dept
9	00001	Cambal	Darylle Arne	Single	Administration	asdadasdsad
12	12345	asdasd	asdada	Single	adasdad	sadadasd

Employee Num

Name
Date of Birth
Gender
Marital Status
Address

Contact#
Email
Department
Job Title
Date of Employment
Work Email
Work Phone#

Remove Edit

FIGURE 7. EMPLOYEE MENU



Dar's BBQ Manager

Security Admin Tools About

Add Employee

Personal Information

Employee ID :

Last Name :

First Name :

Date of Birth : Gender : Male Marital Status : Single

Address :

Contact Number :

Email Address :

Job Information

Department :

Job Title :

Work Contact Number : Date of Employment :

Work Email :

FIGURE 8. EMPLOYEE ADD MENU

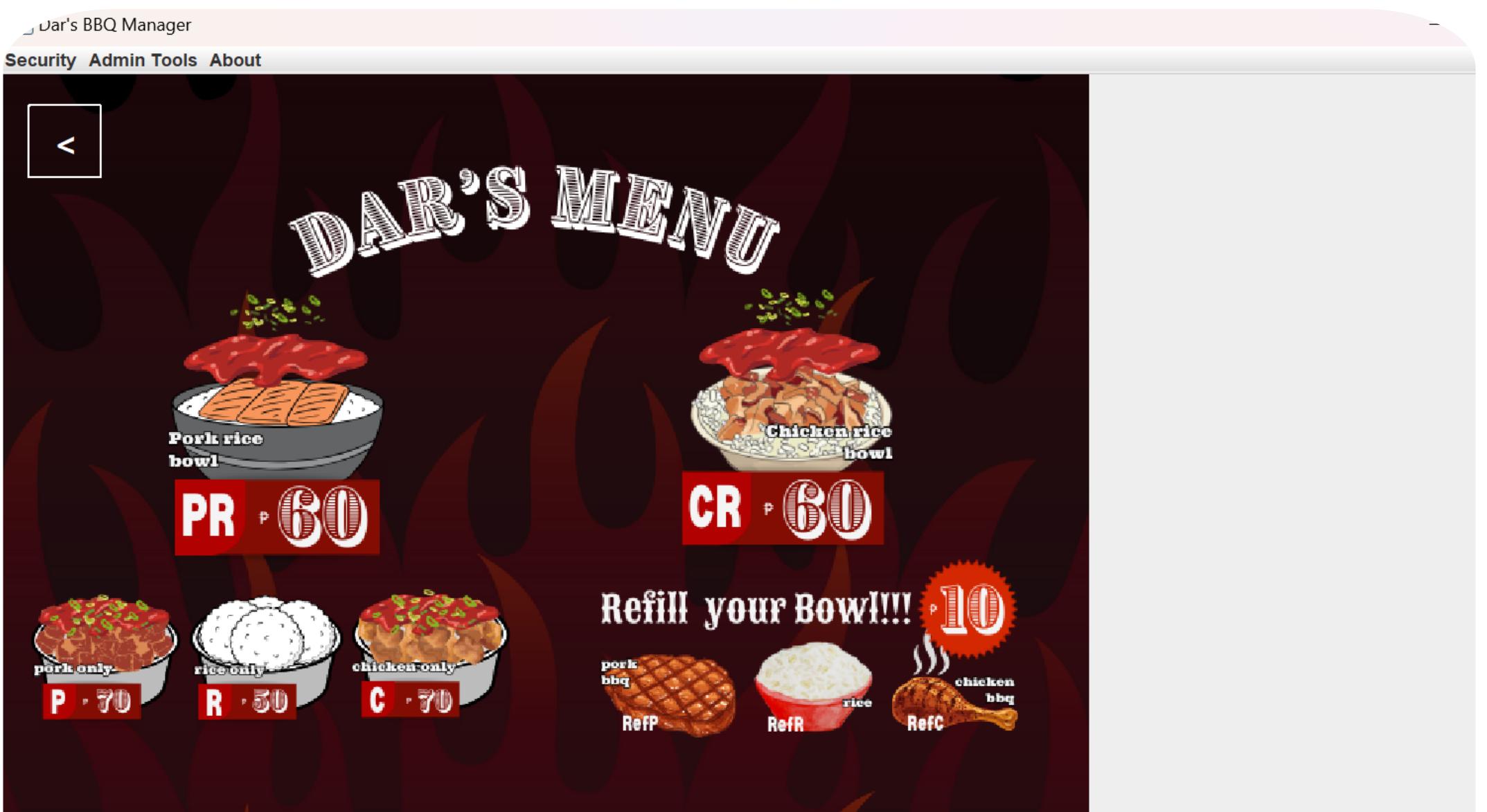


FIGURE 9. PRODUCT MENU



Var's BBQ Manager

Security Admin Tools About

Restock History

Id	Name	Notes	Date Recorded	Amount
3	Chicken Meat	Emergency restock	2024-03-05	10

Add Record

Item :

Amount :

Notes :

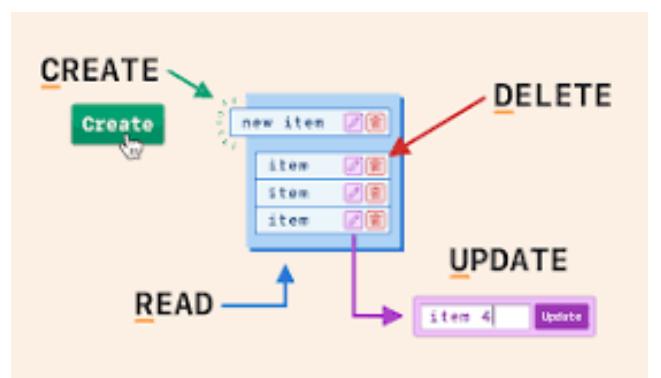
Add

A screenshot of a software application window titled "Var's BBQ Manager". The main area displays a table of restock history with one entry: Id 3, Name "Chicken Meat", Notes "Emergency restock", Date Recorded "2024-03-05", and Amount "10". Below this is an "Add Record" form with fields for Item (set to "None"), Amount (set to "1"), and Notes (an empty text area). There are "Add" and "Cancel" buttons at the bottom of the form.

FIGURE 10. RESTOCK HISTORY MENU



USING





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DEMONSTRATION



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THANK YOU