# Subject name Python

**EVALUATION -1 REPORT**

**ON**

## Topic Name: Grocery store management store

**School of Computer Science**

# UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**Dehradun-248007**

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ABSTRACT

This study examine design issues related to menu-based operating system interfaces. It covers the menu structure and user interface (UI) of the interactive system. These studies focus on creating menus that take into account the user's goals and thinking patterns to make it easier to navigate and complete tasks. This article may include test results comparing different organizational structures (such as deep and broad hierarchies) and how they affect the user experience.

INTRODUCTION

In today's world, grocery stores are an important place where people can buy a variety of food. But the convenience offered by grocery stores has led to the rejection of unhealthy foods, which is worrying. As lifestyles evolve, eating habits also change, and often making decisions becomes easier than dieting.

The rise of processed foods, sugary foods, and ready meals has created a paradox: Grocery stores are causing health problems while drinking cleaner beverages. Seniors, who are mostly on fixed incomes, have difficulty making healthy choices. The combination of these trends raises an important question: How can the grocery store promote healthy choices while maintaining accessibility for all ages?

Our review of this document focuses on new findings, creative solutions, and industry best practices related to store management. Our goal in solving this problem is to improve the health of our customers and society at large.

LITERATURE SURVEY

Today's food world is different than ever due to the development of technology, market economy and changing consumer preferences. Since the beginning of the modern era, malnutrition and malnutrition have been increasing, causing public health problems. In addition, a large part of the society, especially the elderly, has difficulty finding and purchasing good food due to the many difficulties in the society.

Purchase items.

Your bill is- name of items and quantity and price

Start

Ddisplay the available poducts and there cost

Quantity more than \_\_\_/- pop will appear

Select items

Add more items

|  |  |  |
| --- | --- | --- |
| Authors:- | Result | Negative conditions |
| Thomas Tullis | Menu based problem for inventory store | It is showing that how is the error coming where all the people are facing problems in connect with menu. |
| Samir Yerpude | Warehouse with Internet of Things supported Inventory Management System | Inventroy can have miscalculations which can cause overstocking or reduce stock due to human error |
| Anas M. Atieh, Hazem Kaylani | Performance of Inventory management | AWMS has drawbacks but can increase efficiency. Budgets may be strained by large upfront expenses and continuous maintenance. Skilled management is necessary for complex systems. Workers may be replaced by automation, and there may also be concerns about technical difficulties and data security breaches. |
| Xiang Chen | , Consumer Behavior Shifts,Rapd increase in Online Grocery Shopping Trends | Reduced In-Store Safety Perception, Decreased Frequency of Store Patronage, Increased Spending Per Shopping Trip |
| Xiang Chen, Yiru Wang | Consumer Behavior Shifts, Online Grocery Shopping Trends, Managerial Implications | Reduced In-Store Safety Perception, Shift in Shopping Schedule and Destinations |
| Jolan Litwin | It is showing how we can connect python with excel to store data | time complexity is incresead, limited gui, |
| Rana Mazumdar | power of excel of scalibility, easy to use with python, and a good option ofr customiztiaion. | , Limited Connectivity to Data Sources , Maintenance Challenges |
| Somdip Dey, Suman saha | Blockchain, Digitization, Accessibility | Centralization and Trust Issues: Complexity and Accessibility Scalability and Integration: Privacy and Data Security |
| Atul Pawar , Sushank Dehankar | The impact of inventory management strategies on retail enterprises is examined in this review of the literature. In order to provide insights for maximizing stock levels, cutting expenses, and enhancing overall efficiency in the retail industry, it examines current trends and evaluates research findings. | , Data Privacy and Security, User Adoption Challenges |
| Mark Freeman | User Experience Areas:, Analysis of Errors, Originality | , Usability Challenges, Error-Prone Interactions, Dependency on Internet Connectivity |
| Alan D. moore | It will create a new gui window for the user where the user wont have to work on terminal | Limited modifications, langauge constrai9ntr |

ANALYSIS

User-Centered Design:  
Research shows the necessity of understanding user needs and thought patterns when creating menus. This is based on user-centered design principles, which are important for creating easy-to-use and intuitive interfaces.

Menu Design Considerations:  
This article will discuss the challenge of creating menus for complex systems. Consider applying this concept to your user interface design. How do you organize functionality into a meaningful and easy-to-use hierarchy?

Menu Uniformity and Clarity: This study can make a very important contribution to a uniform and understandable menu. How do you make sure all labels on UI elements are consistent and clear?

Methods of Evaluation:

Usability Testing: The significance of usability testing for menu-based interfaces may be emphasized in the study. This is a useful technique for any user interface design. How are you going to test your interface on actual users to find and fix usability problems?   
User Performance: Based on the suggested material, the paper could investigate how various menu arrangement patterns impact metrics related to user performance (such as job completion time and error rates). Think about if comparable measurements apply to your study and how you could assess them.

The term analysis involves the examination of empirical evidence and theoretical constructs. We carefully examine the effectiveness of managing different products and determine their applicability to various industries. The real question arises: How is the management of the energy storage affected? What role does demand forecasting play in managing grocery stores during a crisis like COVID-19? By examining these topics, we uncover patterns, trade-offs, and trade secrets. Our analysis bridges education and practice by bridging the gap between research and real-world applications.

PROPOSE SYSTEM

GUI-based inventory management system built using Tkinter and Python

This section describes a Python program that uses Tkinter to create a graphical user interface (GUI) for easy product management. The system is an example of inventory management and information management by customer design.

System Functions

The program provides the following functions:

Product List: Product list containing information such as ID, name, price, category, quantity and information. This information is obtained from the global available\_products dictionary, which contains the description of the products.

Purchase function: Users can enter the product ID, quantity, customer name and phone number (if necessary). The system checks the product ID and determines whether sufficient inventory is available. After completing the purchase, the number of purchased products in the have\_products dictionary decreases.

(Optional details) The save\_purchase\_to\_excel function (enabled by default) saves purchase data in an Excel spreadsheet named "purchase\_data.xlsx".

User-Centered Design Considerations   
Prioritize user experience in GUI designed by:

Clear Labeling: Tree view lines and well-labeled tags to encourage user interaction.

The text in the tree map column is centered to make it easier to read.

Error: The system displays an error message when the product ID is incorrect or out of stock.

Data Management

The system uses two storage methods:

Global dictionary: The ID, name, price, category, quantity and date of each item are stored in the Python dictionary called Available\_products. This provides a memory data structure for the program.

Optional Excel integration (marked with an asterisk): For data storage, purchase data (products, customer lists, and contact information) can be saved to the spreadsheet using the save\_purchase\_to\_excel function.

CONCLUSION

Problems with user menus: The first article shows the importance of improving working with user menus. Discovery and usability should be prioritized when it comes to online food management. There is a growing need for effective online grocery management due to this change in consumer behavior. developed. These improvements will be necessary for online retailers to manage changing demand and increase inventory.

Creating an Online Grocery Store:

The last article will look at the features required for online grocery management. These systems can serve the entire online food business through network integration of customer usage and management of product quality

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