**Sri Lanka Institute of Advanced Technological Education**

**[S L I A T E]**



**INDIVIDUAL PROJECT**

Proposal-2024

**Food inventory management system**

For the partial fulfilment of Individual Project in First Year First

Semester of Higher National Diploma in Information Technology in

Advanced Technological Institute of Tangalle Sri Lanka.

**H.P.D.dilshan kumara.**

**TAN/IT/2023/F/0062**

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# Introduction

A manual food inventory system tracks food items using physical records like spreadsheets or notebooks. It requires manually updating stock levels, expiration dates, and usage. This method helps avoid overstocking and running out of items by keeping an organized record. Though it lacks automation, it allows for customization based on needs. Regular updates and checks are crucial for keeping the inventory accurate and efficient.

# Background

A manual food inventory system has been used for years to manage stock by recording details on paper or in spreadsheets. It relies on manual entry and regular updates to track food items, their quantities, and expiration dates. While less efficient compared to automated systems, it offers simplicity and low cost. It’s commonly used in smaller operations or where technology adoption is limited. Accurate record-keeping and routine audits are essential for effective management.

# Problem definition

A manual food inventory system often struggles with inaccuracies due to human error in data entry and updates. Tracking and managing inventory can be time-consuming and labor-intensive. It may also lead to stock discrepancies if records are not frequently updated or audited. This system lacks real-time data, making it difficult to respond quickly to inventory issues. Additionally, it can be challenging to analyze trends or generate reports efficiently.

# AIM of the project

The aim of a manual food inventory system is to accurately track and manage food stock using physical records. It seeks to maintain optimal inventory levels by regularly updating details about quantities, expiration dates, and usage. The system aims to prevent overstocking and shortages through careful record-keeping. It also helps in organizing and monitoring inventory to reduce waste and improve efficiency. Ultimately, it provides a straightforward and cost-effective solution for managing food inventory without relying on advanced technology.

# Objectives of the project

The objectives of a manual food inventory system are to ensure accurate tracking of food items and their quantities. It aims to prevent overstocking and shortages by keeping detailed records. The system seeks to manage expiration dates effectively to minimize waste. It also strives to maintain organized and up-to-date inventory records for efficient operations. Overall, it provides a simple and cost-effective approach to inventory management.

Objectives

1. **Accurately Track Stock**
2. **Prevent Overstocking**
3. **Avoid Shortages**
4. **Manage Expirations**
5. **Organize Records**

## Functional requirement

* Search potions
* User controller
* E-mailing
* User mart
* User cart
* Purchasing

## Non-functional requirement

* High user experience
* Reliability
* Ease of Use
* Material User interface

## Resource requirement

* Hardware
* Pc
* Lap
* Mobile phone

## Software

* Brackets
* MS word
* MS office

## Mark up languages

* sql

## Frameworks

* Bootstrap

## Programming languages

* JAVASCRIPT
* PHP
* JQUERY

# Time Frame

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Activities** | **weeks** | | | | | | | | | | | | | | | | | | | | | | |
| **1** | | **2** | **3** | | **4** | **5** | | **6** | **7** | | **8** | **9** | | **10** | **11** | **12** | **13** | | **14** | **15** | |
| **01** | **Design** |  | |  |  | |  |  | |  |  | |  |  | |  |  |  |  | |  |  | |
| **02** | **Visit and collect info:** |  | |  |  | |  |  | |  |  | |  |  | |  |  |  |  | |  |  | |
| **03** | **Arrange data** |  | |  |  | |  |  | |  |  | |  |  | |  |  |  |  | |  |  | |
| **04** | **Design the project** |  | |  |  | |  |  | |  |  | |  |  | |  |  |  |  | |  |  | |
| **05** | **Find errors and fix** |  | |  |  | |  |  | |  |  | |  |  | |  |  |  |  | |  |  | |
| **06** | **Finish the final project** | |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |

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