Frederick Madzikatire

Student Number: 10119234

PATHWAY: PROG G1

Lecturer: Rodney M

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**Task 1**

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**Introduction**

This task is structured on the design and makings of the website. Here we go over the functional and non-functional requirements as well as the design of the website.

**Report**

Background:

A local group of farmers has decided to work together to start a brick-and-mortar store where they can sell their local products under one roof.

The report will establish the plan for the website.

Functional Requirements:

The Website will track the incoming and outgoing stock as well as which farmer each item belongs to.

1. Non-Functional Requirements:

* Requirements Quest (2022) proposes that all incoming stock will have a unique id number that divides the stock between the relevant categories e.g., equipment, food, and livestock.
* Requirements Quest (2022) proposes that outgoing stock will have a second unique id number that will be divided into two categories which are pick-up and delivery.
* Requirements Quest (2022) proposes that outgoing stock will be tracked on a system that will update every 12-18 hours.
* Customers should be able to live to chat with a consultant regarding their product

There are more non-functional requirements, but these are the important requirements. The reason these requirements are important is because of the management of inventory. Requirements Quest (2022), proposes that the user should be able to locate, purchase and receive their product. The unique number will be stored as the primary key and will store the stock on the website and the database depending on the type of stock it is. As seen in the source below.

Text

Description automatically generated with medium confidence

Source

Each ID starts with three letters which represent the “Department Names” (DM) and the outgoing stock has a fourth letter.

Springer Link (2023) proposes that the second unique number could be stored on a separate database in the same relevant categories which will make tracking the process of orders easier. The customer end will only reflect a message that allows them to see where the order is but to find out more the customer would need to start a live chat. Live chats need to be scheduled within working hours with a 30 min wait time. With a similar prompt as the source below.

Graphical user interface, application

Description automatically generated

Source

When the user starts a chat with our team, they will see a small message window where they can get direct support.

Design Patterns and Architecture:

Question:

* Are design patterns and architecture patterns relevant?
* How should they be applied to the project?

1. Design patterns and architecture are important for the user to navigate effectively. This goes for internal and external users. Object-Oriented Design (2023) proposes that the user should be able to navigate to the relevant product type, purchase the product and receive feedback on their product till it arrives.

Redundancy and visibility are essential in working with performance and scalability, aiming to produce the highest performance possible. Tutorial Point (2023) proposes that the site should have a redundant pattern in terms of locating buttons, information, and prompts. The site should be able to respond to different devices co-existing with another system. A customer would not want to accidentally cancel the order when making a payment

**Reference List**

Requirements Quest. 2022. Non-Functional Requirements. [Online]. Available at: <https://requirementsquest.com/nonfunctional-requirement-examples/> [Accessed 17 April 2023].

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