**BMIS2003 Blockchain Application Development**

**Task Description**

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Programme : RSW2S3 Group : G2

Instruction: Answer **ALL** the questions.

1. Please briefly describe the module(s)/function(s) you engaged in the assignment.

The module I am responsible for in this assignment is the retailer module.The retailer is responsible to update the retailer information to make sure all the information is up-to-date. Retailers need to update the date durian received from the distribution centre and update the date durian passed to customer in this module and existing durian can be chosen to update the details. In addition, retailers also need to check the stock availability always to make sure the stock is enough for customers, if the stock is low needed to replenish with distributors from the distribution centre.

1. What are the strengths of the modules/functions created by you?

This module allows the retailer to update the received and passed dates for durians, ensuring that the system's information remains accurate and up-to-date. This contributes to the overall transparency and traceability of durians within the supply chain. In addition, this module also allows retailers to choose which durian to update the information for, by choosing the specific durian, the durian’s details that are needed to be updated can be updated. By updating the date durian received from the distribution centre and the date durian passed to the customer, it provides transparency to the customer, and it will provide a sense of security to the customer and make them more inclined to purchase the durian from the same retailer again.

1. What are the weaknesses of the modules/functions created by you?

The weakness of the module is that the retailer could not add retailer to the system, only the owner can add the retailer. This will be unproductive cause as the growth of the business there will be more retailer that have to be added to the system, so if the owner add them one by one, it might take up so much time. It will be better if the retailer can do the adding of retailer by themselves. Moreover, integration with the distribution centre and distributor modules is crucial for seamless stock replenishment. Ensuring smooth data exchange and compatibility with these modules is essential.

1. What have you learned in doing this assignment?

I have learned how to use solidity to code a backend project and how to link the frontend to backend to make sure it works in order to perform a complete system. I researched and reviewed a lot of information about blockchain and supply chain management systems to understand more than provide a good quality of task for this assignment. I have also learned that, by implementing blockchain, it will provide a sense of security and transparency to the end user that is using the system, which I think will be the trend of society in the future.

1. What are the challenges, if any, faced by you while working on this assignment?

The challenges that I have faced during this assignment is how to implement the functionalities that I have coded into a website using HTML, Css and JavaScript. At the same time, I am also facing challenges when linking the frontend with the backend. It took me a long time to figure out the ways and then find the resources to help me successfully link together.

Signature: Hao Date: 26 September 2023