**BMIS2003 Blockchain Application Development**

**Peer Evaluation**

Name :Yong Man Kei ID :21WMR12802

Programme :RSW2S3 Group :2

Instruction: Answer **ALL** the questions.

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

The module I engaged in was the customer module. This module is focusing on the end-user experience within the durian supply chain. Customers, who are the ultimate recipients of the durians, are empowered with several key functions in this module. Firstly, registered customers can seamlessly purchase durians, ensuring a convenient and transparent buying process. Additionally, customers have the ability to actively participate in the durian community by updating durian information, rating durians based on various categories such as taste and fragrance, offering comments and feedback, and accessing comprehensive information about a specific durian's journey from farm to retailer. These functionalities not only enrich the customer experience but also contribute to the overall transparency and trustworthiness of the durian supply chain.

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

A strength of the module is that it allows customers to view all the detailed information regarding a specific durian. Information such as the dates of when it harvested, date it was passed onto various users, and ratings, and this also encourages active user engagement in the durian supply chain because can provide ratings, comments, and feedback, which fosters a sense of involvement and community. This information is important as it allows the customer to know the location of the durian and time it took before it reached the customer. Other than that, it allows users to rate the durian so that the durian will have a rating.

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

An inherent weakness of the Customer Module lies in its dependency on data from other modules, particularly the "View Durian Information" module. If these modules do not input the necessary information, such as durian details and ratings, the customer module may have incomplete or empty records, leaving customers without access to detailed information about specific durians. Additionally, the module relies on customers to actively participate by providing accurate and timely information, including ratings and comments. Inaccuracies or insufficient input from users could potentially impact the reliability of the data available in the system. Ensuring the accuracy and integrity of data, especially in terms of ratings and comments, poses a significant challenge. There is always the possibility of fake reviews or biased ratings, which could mislead other customers and compromise the trustworthiness of the information presented within the module. Addressing these challenges, such as encouraging accurate user input and implementing moderation measures, is essential for maintaining the module's effectiveness and trustworthiness.

1. What have you learned in doing this assignment?

In this assignment, I understand and learn the value of transparency and traceability in supply chain management, as well as the potential advantages of blockchain technology for attaining these goals. I've learned more about the difficulties in building such websites, such as data input and system constraints. I also have a better understanding of durian cultivation, from being harvested at a farm to customers obtaining it.

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

One significant challenge I encountered during the assignment was my lack of familiarity with the Solidity programming language. Solidity is unique and has its own syntax and structure, particularly when it comes to creating and managing smart contracts. It took considerable time and effort to grasp concepts like structs and understand how to efficiently store and access related information within the smart contract. Additionally, developing the website to facilitate the various functions of the smart contract was a time-consuming process. The integration of the front-end and back-end components required careful planning and coding, further adding to the complexity of the task. However, overcoming these challenges and gaining proficiency in Solidity and web development ultimately contributed to a valuable learning experience.

Signature: yong Date: 26/9/2023