**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.

In this assignment, I am responsible for the farmer module. In this module, the system allows the farmer module to create durian. The farmer needs to record down every durian information such as durian type, ] the harvest date and harvest time. Besides, farmers also need to update durian information such as date for passing to the distribution centre.

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

This module allows farmers to create durians. It provides clear information about the durian type from which tree. There are various durian varieties, each with its own unique taste, aroma, and characteristics. The choice of durian type depends on factors such as climate, soil conditions, and market demand. Some popular durian varieties include Musang King, D24, Monthong, and many others. Besides, knowing the optimal harvest time is crucial for ensuring the quality and taste of the durian fruit. The timing can vary depending on the durian variety and local climate. Moreover, knowing the harvest date is essential for the farmer to monitor the trees and assess the readiness of the fruit. Durians are typically harvested during the durian season, which can vary by region. Finally, send the durian to the distribution centre.

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

The weakness of the module is the that the farmer could not create own farmer. Only the owner can add farmer to the system. This can be affective and troublesome at the same time as the owner have to do all the adding farmer.

1. What have you learned in doing this assignment?

While doing this assignment, I slowly learned how the blockchain and solidity complete the front-end and back-end operations to complete the system. In completing this assignment, I inquired a lot about blockchain and solidity, and understood a lot of things. It went very smoothly when doing the assignment, but sometimes I still couldn't find the problem, but in the end, I completed it. I think blockchain will have certain advantages in the future because transactions on a public blockchain are transparent and can be viewed by anyone. This transparency reduces the possibility of fraud and corruption and blockchain uses encryption technology to protect data and transactions. This high level of security makes it difficult for unauthorized parties to tamper with data.

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

The challenge I encountered in this task was that when I was doing this task, I was always unfamiliar with blockchain and Solidity, and I didn't know how to operate Solidity. It took me a long time to slowly figure it out. The biggest difficulty was that it took me a long time to connect the frontend and backend. Not only do you need to do this slowly, but you also need to look at each piece of code carefully. But this assignment has given me a lot of knowledge, and I am very happy to learn this.

Signature: Kaw Date:26/9/2023