**A logo with a person sitting on a shield

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**MAPÚA MALAYAN COLLEGES MINDANAO**

**IT101-2L COMPANY/BUSINESS HOPPING**

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**Bachelor of Science in Information Systems**

***Background of the Study***

In recent years, the move to adopt a more digitalized business model is becoming more of a practical approach. This move led to major changes in the business industry. The introduction of innovative Business Models led to new product and service offerings while extending company relationships with customers and employees (Rachinger et.al., 2018). The transformation can also have a large effect as the digital adoption of Micro, Small, and Medium Enterprises (MSMEs) largely increased the viability of the existing business and increased its output on the economy in terms of business operations, market operations, and product distributions (PwC Philippines). However, not all processes of transition due to the drive to perform better but rather a necessity, like how businesses implemented Cashless payment at the start of the pandemic but kept after it died down due to its potential benefits.

The chosen business in question is a private business named: “Dorothy’s Cakes and Pastries” which is a business that provides baked products such as cakes, pastries, and desserts. Furthermore, it also provides catering services for various events and has customized orders based on the customer’s preferences. The business runs on a 4-person team, with the owner being the head baker/pastry chef while the co-operator usually handles the logistical side and also aids in high-demand operations. Based on the interviews, the team has found several deficiencies with the current business model and operations which hinder operating capacity and efficiency. The problems found can be easily fixed with implementation of various technologies made using basic java application.

**Problem Statements**

After surveying and interviewing the prospective business, it has come to the attention several deficiencies with its existing operation. While not necessarily harmful to its profits, the current business operations affect overall profits and the services provided can be improved. These problems include:

-*Paper-based business information.*The chosen business stores information through paper notes which is susceptible to tampering, inaccuracies and can often result in loss which would hinder recording of transactions.

-*Manual Transactions.* As the stated business is a smaller one, the need for P-O-S (Point-of-Sales) machine larger branches use isn’t economic for the scale of the business. This requires more work in recording sales, and handling P-O-S transactions.

-*Basic Inventory Stocking and Tracking*. As the business is small, attention to how the stock is being tracked is minimal. It is being managed based on the demands and leftover inventories which does work but is susceptible to inefficiencies and market unpredictability.

**Project Goals and Objectives**

Given the deficiencies found in the business operations of (Insert name), the students came up with several solutions to improve current business operations and as such results in better service and profits. The solutions provided are:

-*Portable* *Point-of-Sales Software*. This solution aims to create software that contains basic features of major point-of-sales machines, able to provide item selection, payment—and sales recording/recording which would improve operations while using minimal resources needed to invest for implementation.

-*Digital Order Tracking System*. This solution aims to create a platform that the business operator can use to record, keep, and track all business transactions which includes sales, inventory, to profits/revenue, and lastly, can provide a data sheet which the owner can use to modify business practices.

-*Interactive item availability Tracker.* This solution aims to cover how the business keeps track of its available items for the day which can allow the operators to focus on other things, improving business operations.

REFERENCES

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