Concept Paper

Research Writing

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**Title:**

A Summative Evaluation of the Implementation of Self-Checkout Machines in the Philippines

**Keywords:**

Self-Checkout Machines, Summative Evaluation

**Short Title:**

Self-Checkout Machines in the Philippines

**Rationale:**

In the Philippines, there are extremely long lines especially in the Grocery Stores and because of that, we wanted to find a way to reduce the waiting time in lines queues, and as Computer Science students, we wanted to solve this problem in a techy and modern way. Self-Checkout Machines are the (customers POV)

Committing human errors is inevitable, and existing cashiers cannot prevent this. By implementing self-checkout system in grocery stores, hypermarket, and supermarket we can reduce these errors.

Wanted to reduce human error(>> wala nang pinapasahod na empleyado, innovations para sa business)

malaking grocery, SNR >> kung pwede, if the businesses in the Philippines

>> Due to the high theft rate in the philippines,

We wanted to provide possible innovations for the retail industry such as Hypermarkets, Supermarkets, and Groceries.

**Background of the Study:**

Self-checkout is an automated process that allows customers to scan, bag, and pay for their purchases without someone assisting them. This automated system is like the traditional checkout lane in most supermarkets except the shoppers are the one who are interfacing with the computer’s user interface rather than the cashier or store employee.

The first self-checkout grocery store was established in New York year 1992 by Dr. Howard Schneider. According to Schneider, he considered these self-checkout machines as "robots". He also thought that a new class of "service robots" would perform service work and give a basis and platform for his ideas on artificial intelligence. Eventually, the technology was sold to NCR and Fujitsu. By 2003, self-checkouts have become more widespread and known with countries like US, Canada, Australia, UK

Even though this self-checkout system has been in implementation for quite some time in several stores in the United States, it is still debatable whether self-checkout shows any improvement in efficiency compared to the traditional checkout system. Considering how fast the growth and improvement of technology in the Philippines is, this study focuses on evaluating whether the idea of implementing self-checkout systems in establishments such as supermarkets would be viable and efficient in the Philippines.

**Research Questions:**

1. What are the Advantages and Disadvantages of the System to the Philippines?
2. What would be the effects of the System to the

* Owner
* Economy of the Philippines
* Users

1. Is the Philippines ready for the implementation of Self-Checkout Systems?

**Objectives:**

**Theoretical Framework:**

**Conceptual Framework:**

**Scope and Limitations:**

**Definition of Terms:**

**Methodology  
- Research Design  
- Respondents of the Study  
- Research Instruments   
- Procedure  
- Statistical Treatment**