Republic of the Philippines

POLYTECHNIC UNIVERSITY OF THE PHILIPPINES

COLLEGE OF ENGINEERING COMPUTER
ENGINEERING DEPARTMENT

CMPE 30193

Methods of Research

THE DEVELOPMENT OF A MOBILE POINT OF SALE SYSTEM FOR FOOD CONCESSIONAIRES IN POLYTECHNIC UNIVERSITY OF THE PHILIPPINES

Proponents

Name	Section
De Lumban, Reniel Bryan M.	3-6
Juat, Marielle Julia T.	3-6

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Title:

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Rationale:

According to recent studies, mobile point of sale (POS) systems are proven to be efficient. POS systems evolved to replace electronic cash registers and now serve as retail management systems that record and generate real-time data. The traditional fixed point-of-sale cash register is not only costly and inconvenient to operate. Nonetheless, the proponents of this study recognized the inability to track sales due to a lack of record-keeping in Polytechnic University of the Philippines (PUP). Most food concessionaires in PUP do not have mobile point of sale systems and do not keep official stocking and sales records.

In line with this, this research is of great importance because it will assess the feasibility of using an Android-based POS system for food concessionaires in PUP. The mobile POS system that will be developed in this study is less expensive than most existing systems, and it offers more powerful functionality and better support. The functionalities of the proposed system were intended to fulfill the needs of regular concessionaires using standard operating modes. Each transaction process generates a variety of commercial prospects, as well as data that can help improve business performance. With the help of this system, management can efficiently make consistent, dependable, and fast decisions. When it comes to having access to records, a computerized system is better than a manual system owing to the fact that it can be completed

at a faster rate. If documentation is needed, it can be found in seconds by reviewing the show for relevant information. The suggested system is primarily concerned with the processing, calculations, and auditing of concessionaires' budgetary records. Proponents argue that embracing technological innovation can improve the overall operation of a business.

Statement of the Problem:

A point of sale system is one of the biggest investments in business technology that most food business entrepreneurs make. This research, therefore, aims to create a mobile point of sale system that will assist food concessionaires in Polytechnic University of the Philippines with their small businesses and the following are the specified problems that the study seeks to answer:

1. What are the tasks that can be eased by the use of a mobile POS system?
2. What functionalities are needed to be developed for food concessionaires to reduce the human effort required in business operation?
3. How effective is the mobile point of sale system application in terms of:
    3.1. Usability;
    3.2. Performance efficiency; and
    3.3. Credibility
4. How time-efficient is the use of a mobile POS system for food concessionaires?
5. What significant findings can be concluded from this study?

Scope and Limitations:

The scope of this study is to develop a mobile point of sale system that focuses on providing accurate and timely service at the point of transaction. The point of sale system in larger businesses can be simpler and more cost-effective, however, it has additional responsibility in smaller businesses so its system may be more complicated and require more features. The system will include a user-friendly interface that will allow users to become familiar with all of its usability features, allowing for faster processing times and more individuals to be accommodated. The system will generate daily and monthly reports and sales, present inventory analytics, and will allow the users to produce financial statements. The system is limited to mobile use only. Furthermore, the focus of this study is the small businesses, specifically the food concessionaires in Polytechnic University of the Philippines.

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RECOMMENDATION SHEET

Title: THE DEVELOPMENT OF A MOBILE POINT OF SALE SYSTEM FOR FOOD CONCESSIONAIRES IN POLYTECHNIC UNIVERSITY OF THE PHILIPPINES

Group Code Name: 3605

#		Approved/ Declined/ Pending	Remarks	Signature
1	Dr. Remedios Ado			
2	Engr.Julius Cansino			
3.	Dr. Arvin Dela Cruz			
4.	Engr. Ronald Fernando			
5.	Engr. Julian Lorico			
6.	Engr. Rolito Mahaguay			

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#		Approved/ Declined/ Pending	Remarks	Signature
7.	Engr. Ferdinand Natividad			
8.	Engr. Florinda Oquindo			
9.	Engr. Orlando Pajabera			
10.	Dr. Lutzer Reyes			
11.	Engr. Pedrito Tenerife Jr.			
12.	Dr. Antonio Velasco			
13.	Engr. John R. Dela Cruz			