Innovation of motorcycle sales management system

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Abstract

This project is aimed to design and develop a motorcycle sales management system for Burapaphattana Trading Co., Ltd., a buying and selling, new and used motorcycle business. Therefore, information technology is important for the operation. As a matter of that fact, analyzing and developing a new sales development system are used for more well-organized and faster storage of the data. Moreover, Information technology can protect against losses and damage of data. Including an operating report of the company. Data-based system development is used by software that can manage the accuracy and safety of data such as vehicle, employee, and sales. Materials and Methods: The process of motorcycle sales management system development for Buraphaphattana Trading Co., Ltd. by used and creative and uncomplicated MySQL database management tool with Python through Atom Results: The mean time of onset of sensory and motor block, 2 segment regression, and duration of motor block was comparable and statistically not significant between the two groups. The duration of postoperative analgesia was significantly prolonged with Buprenorphine compared to Nalbuphine with Bupivacaine ($p<0.05$). Conclusion: The results of the quality system management assessment by the users were found that the quality of the system is good. Both in terms of document management and providing customer services. The reduction of the operation errors is more efficient.

Keywords: Innovation, Sales Management, System motorcycle

1. Introduction

The company engages in the business of buying and selling new and used motorcycles. mainly by contacting to purchase with a credit company which the credit company has seized the goods (motorcycle) and open the auction Make the company become the main customer of the credit company. When the company has successfully bought it, it will sell it. There are 2 types of sales, namely selling fresh, selling on credit. Therefore, technology has been used to help. by developing a new motorcycle management system to improve operational efficiency.

Because the company has recorded purchases, reservations, sales, customer information. and motorcycle information Used to store data with Microsoft Excel. Many employees use many departments. There are many Excel files. There are managers responsible for checking, estimating, and administrative staff responsible for recording data. and the salesperson acting as a sales pitch divided into steps It also causes delays and searching for information. There is frequent data loss.

The price of the motorcycle is unclear. The information is inaccurate, erroneous, causing the information to lack credibility cumbersome to work.

From the aforementioned problems, the organizers have studied and gathered the problems that arise for consideration; therefore, a motorcycle management system has been developed. to help the original system work to be able to work more efficiently to store motorcycle data, customer information, vehicle price information, reservation information, sales information, search, inspection. Including various summary reports helps reduce time working steps information fast and increases transparency in operations.

2. Methodology

2.1 System Development Lifecycle (SDLC)

What it means is the implementation of the steps or processes set out in the Financial Information System Development Plan. To create a computer system to work as desired

Step 1: Understand the problem (Problem Recognition)

Information systems can only arise when administrators or users realize that need an information system or an existing management system including the document system in the file cabinet Not powerful enough to meet current needs

Step 2: Feasibility Study

The purpose of the feasibility study is Determining what the problem is and deciding how to develop an information system or is it possible to modify the old information system or not at the least cost and time? and the results are satisfactory.

Step 3 Analysis

Start system analysis System analysis starts from the study of the operating system of the business. In the case that the system we study is an information system, we must study how it works. Because it is difficult to design a new system without knowing how the old system works.

Step 4: Design

In the early stages of design Systems analyst will guide the decision. of the management obtained from the process of analyzing the purchase of computers hardware and software too. (if any or possible). After that, the system analyst will take the various diagrams. written in the analysis process to be converted into a hierarchical (tree) diagram.

Step 5: System Development (Construction)

At this stage, the programmer begins to write and test the program. Is it working properly? It must be tested with the selected actual data. if everything is fine, we will have a program that is ready to be put into practice. After that, the user manual and training of real users of the system must be prepared.

Step 6: Modification (Construction)

Under the supervision of a system analyst, the new system is replaced by the new system. Data entry must be done. And finally, the company can start using this new system.

The introduction of the system should be done gradually. is the best Use the new system alongside the old system for a while Using the same set of data and comparing the results to see if they match or not If it's OK, you can remove the old system. and continue to use the new system

Step 7: Maintenance

Maintenance includes Program editing after use Reasons to modify the program after using it There are two main reasons why the system needs to be modified:

2.1.1. There is a problem in the program (Bug).

2.1.2. Operations in the organization or business have changed. According to statistics of all developed systems, about 40% of the cost of fixing the program is due to "bugs", so system analysts should pay more attention to maintenance. which is usually thought of as not very important

2.2 Highlights of the Python language

2.2.1 Can be used on all platforms, i.e., can run on every CPU, multiple operating systems. Only programmers write from any platform and take their programs. to work on different platforms

2.2.2 There is no charge for purchasing the original program. Typically, generic language programs must purchase the original program to install at a very high cost. But the Python program can be downloaded from www.python.org directly, then install and learn to use by yourself because it is an open-source program

2.2.3 Python brings together the advantages of programming in the past, such as C, C++, Java and Perl.

2.2.4 High security Since Python language works mainly on the Server side, when requests from the Client machine are processed at the Server machine, general users cannot access the Server machine directly, therefore higher security.

2.2.5 Used to develop Web Service, which at present, software development has focused on the exchange of information with each other in the same organization or even different organizations. Make it convenient, do not need other software to convert data to make it compatible anymore, learn faster than other programming languages because of the simple language structure. The structure of the language is like that of C. Programmers who have used C before will learn faster. In addition, Python programming is more concise and shorter than C

3. Results and Discussion

3.1 Assessing the satisfaction of the users of the motorcycle trading system of the salesperson from the evaluation form Content in using the system, the difficulty of using the system and the ease of using the system

3.2 Assessing the satisfaction of the shop manager of the salesperson's motorcycle trading system from the evaluation form. Content in the use of the system, the difficulty of using the system and the ease of using the system
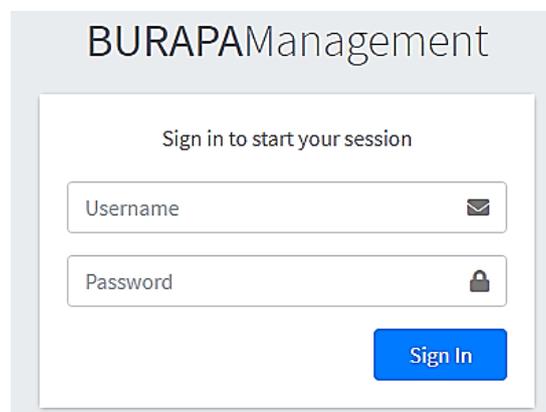
signing screens and reports for administrators

Figure 1 Login screen

Figure 2 Main screen for administrators

The main screen of the program consists of the main menu as follows:

1) Appraise

2) Sales

3) Price

4) Reservation

5) User

6) Customer Information

7) Vehicle information

8) Report

Figure 3 User add screen

Figure 4 User management screen

Figure 5 Time salesperson

Figure 6 Choose a time to view the list. Status

Follow up after 6 weeks

Table no 2: Records the percent change in lipids, (mg/dL) on a regular dose of atorvastatin40 mg. For 6weeks. (TC)level reduced by(-32.81%), low-density lipoproteins cholesterol(LDL-C)went down by(-46.99%),triglycerides reduced by by(-14.71%), non-HDL-C went down by(-37.32%).While there had been a reduction in the undesirable Lipids, as above, due to the above medication ,there was a positive upwards change in the desirable lipids like high-density lipoprotein

cholesterol (HDL-C) which improved by(+3.46%).Further, Fasting blood glucose (FBG) mg/dL level were reduced by (-36.17%).and HbA1c, % hemoglobin A1C test which measures blood sugar control over the preceding three months had also gone down by(-1.89%). The desirable alterations in respect of all the above parameters after 6 weeks of medication which are attributable to the above medication, were highly statistically significant, $P<0.001$ except HbA1c.

Evaluation

The researcher used the user satisfaction evaluation form with the developed system. The assessment is divided into 5 areas: design and requirements, content, functionality based on functionality. safety on the benefit side, try to use by using the satisfaction scoring criteria as shown in the table

Table 1 System User Satisfaction

List	Satisfaction level		
	$\bar{X}$	S.D.	Interpret
1. Design and meet the needs			
1.1 The system layout is beautiful, attractive, easy to read, easy on the eyes.	4.52	0.62	very good
1.2 There is complete content information.	4.55	0.52	very good
1.3 Able to always search for information easily and conveniently	4.84	0.39	very good
1.4 Convenience in searching for information	4.72	0.50	very good
2. Content			
2.1 Clear content information	4.72	0.47	very good
2.2 There is appropriateness of content and images	4.72	0.47	very good
2.3 Images and content are diverse	4.58	0.51	very good
3. The working side has the functionality.			
3.1 Processing speed	4.38	0.74	good
3.2 The system created is comprehensive with practical applications.	4.64	0.50	very good
3.3 System reliability	4.64	0.56	very good
4. Safety			
4.1 Have a login system	4.75	0.45	very good

List	Satisfaction level		
	$\bar{X}$	S.D.	Interpret
4.2 Incorrect data entry notification system	4.75	0.45	very good
4.3 The system has a system to prevent errors that may occur.	4.72	0.47	very good
5. In terms of benefits, try to use			
5.1 Save travel time	4.70	0.48	very good
5.2 More choice to do 24-hour search for information	4.81	0.42	very good
5.3 Satisfaction with system development	4.75	0.45	very good
Total	**4.67**	**0.50**	very good

From responding to the satisfaction assessment form of the motorcycle sales management innovation management system for users of the system the questionnaire was divided into 5 aspects, namely, design that meets the needs, content aspect, function according to functionality. safety and the benefits of experimental use can be summarized as follows.

The results of the satisfaction assessment of the design and meet the requirements found that the mean was 4.84, explaining that the system works according to the requirements at a very good level.

The results of the content satisfaction assessment found that the mean was 4.72, explaining that the system was working to meet the needs at a very good level.

The results of the satisfaction assessment of work by function found that the mean was 4.64, explaining that the system was working to meet the needs at a very good level.

The results of the safety satisfaction assessment found that the mean was 4.74, explaining that the system was working to meet the needs at a very good level.

The results of the evaluation of the satisfaction of the experimental benefit found that the mean value was 4.75, explaining that the system was working to meet the needs at a very good level.

The results of the satisfaction assessment on the content of the innovation of motorcycle sales management management system in the overall picture of the 5 aspects, it was found that the mean was 4.67, which was in a very good level.

Table 2 Expert satisfaction

List	Satisfaction level		
	$\bar{X}$	S.D.	Interpret
2.1 Design and meet the needs	4.46	0.70	very good
2.2 Content	4.67	0.45	very good
2.3 The working side has the functionality.	4.76	0.56	very good
2.4 Safety	4.71	0.67	very good

List	Satisfaction level		
	$\bar{X}$	S.D.	Interpret
2.5 In terms of benefits, try to use	4.86	0.38	very good
Total	**4.69**	**0.55**	very good

From responding to the satisfaction assessment form of the motorcycle sales management innovation management system for users of the system the questionnaire was divided into 5 aspects, namely, design that meets the needs, content aspect, function according to functionality. safety and the benefits of trial use can be summarized. The mean is 4.69, very good.

4. Conclusions

The creation of a motorcycle sales management system, Burapha Pattana Trading Co., Ltd. has achieved the objective of this information project. which designs and builds the company's work system systematic more organized.

By creating a motorcycle sales management system, there are sequential work steps. The system works through the Web Browser, which does not need to install the program on the computer. to continue to maintain and develop From the trial of the motorcycle sales management system, Burapha Pattana Company Trading Co., Ltd. can issue reservations and car receipts. including the system can also notify via Line.

5. Discussion

From creating a motorcycle sales management system, Burapha Pattana Trading Co., Ltd. found problems and obstacles in making this system. Saving data cannot be saved because the message contains special characters, causing an error but there are some basic guidelines that can be applied. by having to study the use before to become familiar and able to use it properly the steps are
   - Identify problems that have arisen before
   - Analyze and find the root cause of the problem
   - List the options For the guidelines for solving the problems from the above theory, it can solve the problems that arise and lead to the development of better systems that can be used in real and used effectively. the most

Suggestions for utilizing the research results
   - Training on how to use the program before starting Suggestions for future research
   - Verify accuracy before recording add no error Design to add systems or functions that can be further developed
   - Structural design for development and development It should be designed to be Designing a security system for the program to be concise

6. Summary and acknowledgments

Acknowledgments should be as brief as possible, in a separate section before the references.

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