**BESQuiz: Online Examination Management System**

**for**

**Bucadala Elementary School**

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1. **INTRODUCTION**
   1. **Project Context**

Educational institutions' learning processes and teaching approaches have been revolutionized by information technology. At the moment, students may study in a variety of flexible methods, such as searching for innumerable online resources, enrolling in online classes and courses, and so on. The use of technology has played an important role now that we are dealing with the COVID-19 pandemic. The schools use technology to facilitate flexible learning and continue to provide students with a high-quality education.

This research focuses on the development of an “Online Examination Management System” to simplify examination management in school. Traditionally, examinations take place inside a four-walled corner classroom wherein students are provided with printed questionnaires. However, this exam method needs to be extended beyond classroom settings for unexpected situations like the pandemic we are currently battling that limits our physical interactions.

The researchers of the study aimed to develop an Online Examination Learning Management System to extend the traditional classroom examination online and virtually. The web-based system is designed to allow teachers and students to conduct examinations and classes online without the need for physical interactions.

The implementation of the system will ease up and simplify the conduct of examinations by the teachers and students. The teachers can upload quizzes in the system for the students. The students would only need to register in the system to be able to take exams. The online platform is highly efficient, reliable, and convenient to use.

* 1. **Purpose and Description**

The study is an online, computer aided tool that was designed primarily for the conduct of online examination. The system was created using PHP, a web-based scripting language, and MySQL as the database software. The system focuses on the automation of students' examinations; preparation, scheduling, checking and grading. A database is provided for the storage of exam questions, answers to questions and students' records. The system allows instructors to create an exam by entering questions with its corresponding answers into the database. Instructors are provided with three options on the type of exam; these include, True or False, Multiple Choice and Fill in the Blanks.

There are three account types based on the intended users. One is the Administrator Account; this can be used to create instructor accounts. It can also be used to delete or suspend other accounts based on activity status. The Instructor Account allows teachers to create student accounts and enroll the same. This account can be used also to create, activate, edit, delete exams and monitor students' performances. The Student Account is for the officially enrolled students where they can take exams and view scores even from previous examinations.

This software allows instructors to keep track of students' performances from all exams since the results will be stored in a database linked to an online system. While taking the online exam, students can choose the number of exam questions that will be displayed on the screen at a given time.

A student can take the exam only on the specified date and time set by the instructor. Ideally, a particular exam should be taken only once. In cases of retakes due to valid reasons and special exam considerations, the instructor is given the option to administer the previously activated exam, edit or create a new set of questions.

One limitation though, this online system is not to be used to compute for the class performance for the final grade since this requires other components such as seat works, graded recitations, laboratory activities, etc. This only compute and shows the scores from previous exams and the average.

* 1. **Objectives**

The researchers generally aim to design and develop a system that will automate examination which will enhance the traditional method of the examination system.

Specifically, this study has the following objectives:

1. To develop a software that can serve as an alternative tool for students in taking examinations.

2. To provide the teachers with a useful tool in the preparation and checking of examinations as well as the maintenance of an online class record.

3. To provide a tool equipped with security measures that can be used to minimize cheating among students.

4. To provide a tool that can be used to administer exams online rather than using traditional paper-based exams or using other online quiz/exam platform for the online class students.

* 1. **Scope and Limitations**

**Scope**

* The system handles all the operations, and generates reports as soon as the test is finish.
* Can display the result and scores of the examinee.
* Can create an account for the examinee.
* Can display the examinee information and ranks.
* Can modify examination time duration.
* No restriction that examiner has to be present when the examinee takes the test.
* Can be used anywhere any time as it is a web-based application (user Location doesn’t matter).

**Limitations**

* Cannot provide the statistics of the examination result.
* The type of questions is only multiple choice or true and false.
* Cannot provide the questionnaire with the answers of the examinees.
* Needs an internet connection to access system or to take the exam.
* The system is exclusive for Bucandala Elementary School students and staffs only.

**eLeave: Employee Leave Management System**

**for**

**Appen Services - Imus**

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1. **INTRODUCTION**
   1. **Project Context**

The "Employee Leave Management System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Employee Leave Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Leave, Employee, Payroll, Leave Type, Salary. Every Employee Leave Management System has different Employee needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

* 1. **Purpose and Description**

The purpose of Employee Leave Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Employee Leave Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

* 1. **Objectives**

The objective of this project is to develop an online leave management system that will allow the employees to apply for leave anywhere, anytime as long as they can access the internet.

**Specific Objectives**

The following are the project objectives for the Leave Management System.

1. Users will check the number of days remaining to complete their leave.
2. Automation of the leave management system.
3. Will allow users to check for feedback after the application has been made.
4. Allow users to check if he/she is eligible to get the leave.
5. The system should allow the employee to create accounts with the system.
6. The system will allow employees who have created accounts to log into the system, using their username and passwords.
   1. **Scope and Limitations**

**Scope**

The system is an online leave management system for leave applications review process usable in any organization and customizable to be used in different business environments. A dynamic database will be used to hold all leave applications details and keep data in a way that it can be viewed by management to make prompt informed decisions on approvals and staffing levels. A simple interface will be in place making it easy and simple to use for all employees and management. A comprehensive documentation to assist in the maintenance, customizing and adding more modules to the system.

**Limitations**

1. The system will only be used with employees who can get access to the internet because the system will be online.
2. The organization will also be forced to offer training to those employees who are computer illiterate thus adding some expenses to the organization.

**POSSI: Web-Based Point of Sale System with Inventory**

**for**

**Ate Dhang's MiniMart – Imus**

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1. **INTRODUCTION**
   1. **Project Context**

A Point of Sale System is a software-based business solution used to simultaneously track sales activity and inventory. Manufacturers and trade resellers can both benefit from a thorough solution, where single transaction entry records, necessary details on the customer, products purchased, price and date while also updating inventory levels.

Ate Dhang’s MiniMart is a family business, it started in year 2019 and it is owned by Dhang Tayopon, located at Meadowville Subd. Brgy. Pasong Buaya II, Imus City, Cavite.

Since Ate Dhang’s MiniMart still uses manual system in their business transactions, that makes them encounter a lot of problems like time consuming in looking into shelf for the saleable items, manually checking the expiration dates and out of stock items, transaction records has no paper storage and difficulty in doing inventory reports. Our proposed system would be a big help to all the process because it operates at fast pace in serving as many customer as possible and helps monitor all kinds of records in a faster, easier and more convenient ways.

The general problem of the study is how the proponents will design and develop Point of Sale for Ate Dhang’s MiniMart. The proponents will be able to answer the specific problems: How to make it easier to monitor the

availability of the stock in order to prevent under stocking. How to create a module that will generate daily, monthly and yearly report. How to integrate the barcode scanner on point of sale and inventory module.

* 1. **Purpose and Description**

The main purpose of this study is to design and develop a POS (Point of Sale) application for Ate Dhang’s MiniMart, the said application will help enhance the productivity of the grocry and at the same time will make their transactions much easier.

It is a Solution designed with an optimized and systematic POS that has a user-friendly interface as well as a systematic and automated approach for easier handling and this improvement of the Data Management System. This project demonstrates the efficient and effective data and inventory management. It uses less of time for accessing data or information about the client and at the same time makes the process become faster.

* 1. **Objectives**

To develop and implement Point of Sale System with Inventory for Ate Dhang’s MiniMart that will enhance the business operation.

**Specific Objectives**

1. To develop a system that will monitor the availability and the quantities of the stocks in order to prevent understocking.
2. To create a module that will generate daily, weekly, monthly and yearly sales report.
3. To integrate the barcode scanner on point of sale and inventory module.
4. To provide a customer receipt.
5. To provide a graphical sales report.
   1. **Scope and Limitations**

**Scopes**

* 1. The system can store, update, view the current stocks of the business and can also generate a list of available items.
  2. For the sales, the system can automatically compute the total sales of the business per day.
  3. Our system can issue receipt to the customer.

**Limitations**

* + - 1. Our system doesn’t have the capability to be accessed online.
      2. System can’t access credit cards and ATM cards.
      3. Our system can’t accept other currency.
  1. Our system can’t generate purchase order.