ABSTRACT

Online Exam System for introduction to management is a website that is designed and developed for students and lecturers. The system helps students to take examination online. It helps also lecturers to upload the questions and answers in the database and they can see the students who fail or pass the exam. The software is developed using Java programming language and database. In the software we can register as a user and users are of two categories which are Lecturer and Student. Before using the system both users need to register and after that they must login with their username and password in order to enter the system.

The online examination system for introduction to management is constituted of different components for instance login function, insertion of data in the database, extraction of data from the database. The problem with the current system is that students take their exam manually. This outdated system will take long time utilization; the manual procedure used for conducting exam is time consuming process. More time being used for lecturers to bring the questions papers and answer sheets and also more time is needed for students in order to write their exam.

TABLE OF CONTENT

INTRODUCTION

Today, Online Examination System is considered a fast developing examination method because of its accuracy and speed. It is also needed less manpower to handle the examination. Almost all organizations today, are managing their exams by online examination system, since it reduces student's time in examinations. Organizations can also easily monitor the progress of the student that they give through an examination[1]. As a result of this, the result is calculated in less time. It also helps diminishing the need for paper.

Online examination project in PHP is very useful to learn it, According to today's requirement Online examination system is significantly important to the educational institution to prepare the exams, saving the time and effort that is required to check the exam papers and to prepare the results reports. Online examination system helps the educational institutions to monitor their students and keep eyes on their progress. The best use of this system in Scholastic Institute and training centres because it helps in managing the exams and get the results in easy and an efficient manner. Until today the preparing for exams and preparing the results was performed manually, this required more time to complete.

OBJECTIVE / PROBLEM STATEMENT

This project is aimed at developing an online examination system for introduction to management for students and lecturers. The purpose of the system is to completely automate the old manual procedure of conducting exam to a computerized System. I will provide a more efficient examination system. The system will allow students to register and take the exam. It enables also lecturers to perform many tasks. The system has several functions. The users will do the registration before using the system.

The problem with the current system is that students take their exam manually. This outdated system will take long time utilization; the manual procedure used for conducting exam is time consuming process. More time being used for lecturers to bring the questions papers and answer sheets and also more time is needed for students in order to write their exam, student are not satisfy with the current system of taking the multiple choice examination.

MOTIVATION

In customary framework directing exam is extremely repetitive work for analyst and educator too. The entire procedure of allocating exam and assessing their score after the test was done physically till date. Be that as it may, online examination framework is absolutely electronic framework. The framework goes for diminishing expenses connected with directing exams over a timeframe and accomplishing complete computerization of examination framework related assignments like enlistment, distribution of results, which prompts a high level of framework effectiveness. In the wake of experiencing huge numbers of reference papers at long last we are concluded that we can manufactured one examination framework that can be give easy to understand access to establish for directing exam and investigation of result.

RELATED WORK

Several research papers and projects have focused on the development of online examination systems. Some key areas of related work include:

1. **System Architecture:**

- Exploring different architectures for online examination systems, such as client-server or cloud-based architectures.

2. **User Authentication:**

- Investigating various methods of user authentication to ensure the integrity of the examination process, such as two-factor authentication and secure login protocols.

3. **Question Bank Management:**

- Developing efficient algorithms for question bank management, randomization, and difficulty level assignment to create diverse and fair exams.

4. **Adaptive Testing:**

- Researching adaptive testing techniques to tailor the difficulty of questions based on the individual's performance, providing a more accurate assessment.

5. **User Experience and Interface Design:**

- Investigating user experience design principles to create intuitive and user-friendly interfaces for both exam takers and administrators.

6. **Scalability and Performance:**

- Addressing issues related to system scalability and performance, ensuring that the platform can handle a large number of concurrent users without compromising speed and reliability.

PROPOSED METHOD

In order to give solution to problems in an industry, software developer or a team of developers must incorporate a development strategy that encompasses the process, methods and tools layers and generic phases. This strategy is often referred to as process model or a software developing paradigm.

A process model for software developing is chosen based on the nature of project and application, the methods and tools to be used, and the controls and deliverables that are required. All software development can be characterized as a problem solving loop in which distinct stages are encountered. Regardless of the process model that is chosen for a software project, all of the stages coexist simultaneously at some level of detail. The methodology chosen to develop this system is waterfall model approach. I opted for this method because I found that it is the best for my project where the stages involved can assist my level of progress.

Many developers prefer waterfall model and widely use it as a development strategy. Waterfall model approach is chosen because the approach allows the development of the system to be revised after the stages is finished. Once the stages are not satisfied, then going back to the previous stages can be considered necessary to add or modify any features.

PLAN OF WORK

1. Set goals and the scope of the project.

- Establish communication lines and identify the important parties.
- Undertake a feasibility assessment.

2. Examination of Requirements:

- Compile all necessary information, including functional and non-functional.
- Set permissions and roles for users.
- Determine your needs in terms of security and privacy.

3. Architecture of the System:

- Construct the database schema.
- Establish UI mockups and wireframes.
- Explain how users interact and how data flows.

4. Evolution:

- Apply database functionality and backend logic.
- Make sure the UI is user-friendly and develop frontend components.
- To defend against weaknesses, incorporate security measures.

5. Testing:

- Examine each component separately using unit testing.
- Verify smooth interactions by doing integration testing.
- To verify overall functionality, conduct system testing.

CONCLUSION

Online examination system for introduction to management course is the best compared to paper-based exam. The automated system helps students and lecturers to save time and makes the process faster. It saves space since answers papers will not be used. With a user friendly system that has security, integrity and the database is neither inconsistent nor redundant.Using an open source language gives us more flexibility, but at the same time it required more time to be programmed.The proposed Online Examination System (OES) can be easily adopted by universities and institutions in order to make the exam more secure and more flexible.The system is subdivided into two main subsystems (student and administrator) that are designed to give   the   system maximum   benefit   by   demonstrating carefully   each   subsystem service.The administrator's functions are clearly identified to be able to manipulate user's information such as add (register), delete users and managing the exam materials and content such as add, delete questions, Thus the proposed system is easy and flexible because for future maintenance   and development because each subsystem can be handled separately without influence on other system.

REFERENCES

Reference Books Head First PYTHON with django & SQLITE- By Lynn Beighley & Michael Morrison The Complete Reference- PYTHON- with django (Guido van Rossun) Reference websites :-

- www.youtube.com
- www.w3schools.com
- www.javatpoints.com