

**Tribhuvan University**

**Faculty of Humanities and Social Science**

**“ONLINE EXAMINATION SYSTEM”**

**A PROJECT PROPOSAL**

**Submitted to**

**Department of Computer Application**

**Butwal Kalika Campus**

***In partial fulfillment of the requirements for the Bachelors in Computer Application***

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**ABSTRACT**

Online Examination System is used for conducting an online objective test, the test will be customized such that system will have automated checking of answers based on the user interaction. This project helps the faculties to create their test based on the subject and for students, we make an online assessment facility. This also helps the instruction to perform online quizzes, test papers such that the academic performance of the students can be increased and can take the feedback from both students and parents.

The online examination system is most important for the current pandemic situation. Exam System is very useful for prepare multiple-choice questions for an exam, save the time that will take to check the paper, and prepare mark sheets. It will help the Institute to the testing of students and develop their skills. But the disadvantage of this system, it takes a lot of time when you prepare the exam for the first time for usage. And we need several computers for the same number of students.

**Table of contains**

[Abstract](#_Toc55039681)

[1. Introduction:](#_Toc55039682) 1

[2. Problem Statement](#_Toc55039683) 2

[3. Objectives](#_Toc55039684) 3

[4. Research Methodology](#_Toc55039685) 4

4.1 [Requirement Identification:](#_Toc55039686) 5

4.1.1 [Study of Existing System:](#_Toc55039687) 5

4.1.2 [Requirement Collection:](#_Toc55039688) 5

4.2 [Feasibility Analysis:](#_Toc55039690) 5

4.2.1 [Technical Feasibility:](#_Toc55039691) 5

4.2.2 [Operational Feasibility:](#_Toc55039692) 6

4.2.3 [Economic Feasibility:](#_Toc55039693) 6

4.3High-Level Design of System……………………………………….....7

4.3.1 Use CaseDiagram……………………………………………………………7

4.3.2 System Flow Chart:………………………………………………………......8

4.3.3 Entity Relationship System:………………………………………………….9

[5. Gant Chart to show the project’s time planning:](#_Toc55039695) ………………………...10

[6. Expected Outcome:](#_Toc55039696) ………………………………………………………11

7. References……….……………………………………………………….12

**1.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[1]. 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.

As a result of this, the result is calculated in less time. It also helps to diminish 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. The 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 centers because it helps in managing the exams and get the results easily and efficiently. Until today the preparing for exams and preparing the results was performed manually, this required more time to complete.

**2. Problem Statement**

Since the traditional have many drawbacks such as time-consuming, Difficulty of analyzing the test manually, More observers are required to take exam of many students, Results are not accurate since calculations are done manually, The chance of losing exam's result is higher in current systems, Checking of the result is time-consuming since it is done manually, Limitation of no of student can give examination at a time. with the development of information technology and use it in an orderly and properly helps to overcome the existing error in the manual system. The online examination system saves the exam information in a database, and this makes it an easier way to give exam teachers can add their exam rules, and students can give exams in an automated system.

**3. Objectives**

Online examination is becoming more popular in this digital century. The major objective of our project is to develop an online examination system for students whereby exams/tests can be created. It is most important for the current pandemic situation. Exam System is very useful for prepare multiple-choice questions for an exam and saves the time that will take to check the paper. Some of the specific objectives of the Online Examination System are listed below:–

* Automatically checked answers
* Prevents cheatings
* Time management

**4. Research Methodology**

**4.1 Requirement Identifications**

Study Of Existing System

Functional Requirement

Economical Feasibility

Operational Feasibility

Technical Feasibility

Requirement Collection

System Flow Chart

Entity Relationship System

Use Case Diagram

**4.1.1 Study of Existing System**

Computerized and online systems have been increasing in every aspect of education. Information Technology plays a very important role in nowadays education. Computers and the internet have made dramatic changes in the education system. An online examination is the conducting of an examination or test online to measure a student’s academic performance. Traditionally, these evaluations were conducted orally or through written tests using pen and paper. Students gathered in an examination hall or room where a question paper was handed to students and students had to write answers within the allotted period. These questions were not seen previously to ensure a fair evaluation of all students. Students then turn in their answer sheets and after some time, evaluators share student scores.

With an online examination, all these traditional elements continue to persist, however, the mode of test-taking has changed – instead of a physical examination hall, students instead log into an online examination system through which they access the question paper and share their answers. Evaluation and the publication of results also happen within this system. It is an application that is designed and developed for students and lecturers. The system helps students to take examinations. It helps also lecturers to upload the questions and answers in the database and they can see the students who fail or pass theexam.

**4.2 Feasibility Analysis**

**4.2.1 Technical Feasibility**

Building this system is technically feasible. The hardware and software needed are all available, it not difficult to get them. The brief I can say the necessary resources needed for the development and maintenance of the system are available. I am going to use java programming languages and database

**4.2.2 Operational Feasibility**

The project I am developing is operationally feasible as there is no need for users to have good knowledge of computers before using it. The user can learn and use the system with easiness; he just needs to read the manual or tutorial from thedevelopers.

**4.2.3 Economical Feasibility**

Besides being technically feasible, developing this system is economically feasible as well. The development of the system does not require the developers to spend a lot of money. The tools I will be using to develop the system are not expensive and the software is open source. All I need is time. Even the maintenance of the system will not be expensive. The system is indeed economically feasible.

**4.3 High-Level Design of Systems**

**4.3.1 Use Case Diagram**

The unified modeling language used is the use case diagram. A use case is a set of scenarios that describes an interaction between a user and a system. A use case diagram displays the relationship between actors and use cases. The two main components of a use case diagram are use cases and actors. The actors in our system are students and lecturers. The use case diagram is designed in the followingfigure.[2]

Student lecturer

Registration

Login

Logout

Upload

Choose Exam

View student report

Take exam

Send Email

Figure:1 Use case Diagram

**4.3.2System flow chart**

A system flowchart is a valuable presentation aid because it shows how my system major components fit together and interact. In effect, it serves as a system roadmap.[2]

No

Usernameand password

are correct?

yes

Usernameandpassword

arecorrect?

yes

Not YetRegister

Username and password

Re-enter

**No**

student

starts

Studentstudestudsf

sssssss

student or lecturer?

Lecturer

Username and password

logout

Take exam

Choose exam

Register

Not yetregistered

logout

Upload question

Sent email

View students details & grade

Ends

Figure:2 System Flow Chart

**4.3.3 Entity Relationship System**

[2**]**

Subject

ID/STAFF

QuestionNum

questions

users

Confirm password

Choice1

Category

Choice2

Mobile number

Choice3

**QuestionsAnswers**

Choice4

Correct Answer

**solve**

**See**

ID

Grade

Percentage

Result

Passwords

Figure:3 Entity Relationship System

**5.0 Gantt Chart**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Activities | Start | End | Duration(days) | Kartik | | | Mangsir | | Poush | | | Magh | |
| 7/2 | 7/16 | 7/30 | 8/1 | 8/30 | 9/1 | 9/16 | 9/24 | 10/1 | 10/8 |
| System Analysis | 7/2 | 7/16 | 7 |  | | | | | | | | | |
| System Design | 7/17 | 8/1 | 14 |  | | | | | | | | | |
| Coding | 8/2 | 9/1 | 28 |  | | | | | | | | | |
| Testing | 9/2 | 9/16 | 14 |  | | | | | | | | | |
| Maintenance | 9/17 | 9/24 | 7 |  | | | | | | | | | |
| Performance Testing | 9/25 | 10/8 | 14 |  | | | | | | | | | |
| Documentation | 7/2 | 10/8 | 84 |  | | | | | | | | | |

Fig: Project’s Timeline using Gantt Chart

**6.0 Expected Outcome**

1. The main goal of this online examination system is to effectively evaluate the student thoroughly through a totally automated system that not only reduce the required time but also obtain fast and accurate results.
2. It is secure with a proper mechanism to store results and also provides time management. It maintains the confidentiality of exams, so there’s no room for malpractices. All the questions are generated from the database, which is similar to a safety locker that is accessible only by authorized personnel.

**7. References**

[1]<https://www.slideshare.net/SARASWATENDRASINGH/online-examination-system-project-report>

[2] <http://utpedia.utp.edu.my/13518/1/12272_dissa%20adoum%20baba.pdf>