REPORT

ON

**Guided by**

**<Project manager>**

**<His/Her occupation>**

**TEAM MEMBERS**

**<Partner 1 name>**

**<Partner 2 name>**

ONLINE EXAMINATION

SYSTEM

**ACKNOWLEDGEMENT**

The satisfaction that accompanies that the successful completion ofany task would be incomplete without the mention of people whose ceaseless cooperation made it possible, whose constant guidance and encouragement crown all efforts with success.

We are grateful to our project guide **<Project manager name>** for the guidance, inspiration and constructive suggestions that helpful us in the preparation of this project.

We also thank our colleagues who have helped in successful completion of the project.

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**INTRODUCTION**

***Online Exams*** is being launched because a need for a destination that is beneficial for both institutes and students. With this site, institutes can register and host online exams. Students can give exams and view their results. This site is an attempt to remove the existing flaws in the manual system of conducting exams.

**Purpose**

***Online Exams System*** fulfills the requirements of the institutes to conduct the exams online. They do not have to go to any software developer to make a separate site for being able to conduct exams online. They just have to register on the site and enter the exam details and the lists of the students which can appear in the exam.

Students can give exam without the need of going to any physical destination. They can view the result at the same time.

Thus the purpose of the site is to provide a system that saves the efforts and time of both the institutes and the students.

**What is Online Exams System all about?**

***Online Exams*** System is a web application that establishes a network between the institutes and the students. Institutes enter on the site the questions they want in the exam. These questions are displayed as a test to the eligible students. The answers enter by the students are then evaluated and their score is calculated and saved. This score then can be accessed by the institutes to determine the passes students or to evaluate their performance.

***Online Exams System*** provides the platform but does not directly participate in, nor is it involved in any tests conducted. Questions are posted not by the site, but users of the site. The site requires an institute to register before posting the questions.

The site has an administrator who keeps an eye on the overall functioning of the system. The site gets revenue by charging the institutes each time they want to conduct the exam. The system entitled “Online Exams System” is application software, which aims at providing services to the institutes and providing them with an option of selecting the eligible students by themselves. It is developed by using J2EE technology and related database.

This Application provides facility to conduct online Examination. It saves time as it allows number of students to give the exam at a time and displays the results as the test gets over, so no need to wait for the result. It is automatically generated by the server. Administrator has a privilege to create, modify and delete the test papers and its particular questions.User can register, login and give the test with his specific id, and can see the results as well.

***2. Technologies used:***

This project is a Java application that is developed in Eclipse having my SQL server as back end.

1. Database Design at MY SQL

2. Input Design in ECLIPSE using awt and swing

3. Coding (ECLIPSE)

***3. Hardware Interface:***

***Client Side:***

Eclipse

Processor: Pentium IV 2.0 and above.

RAM: 256 MB

**Online Examination**

**Server Side:**

Processor: Pentium IV 2.0 and above.

RAM: 1 GB

Disk space: 4GB

***4. Software Interface:***

**Client Side:** .NET Framework, Eclipse

**Web Server:** .NET Framework, Windows XP/2000/Vista

**Data Base Server:** MY SQL

***5. Constraints:***

User interface is only in English i.e. no other language option is available. User can login only with his assigned username and password which is verified by the admin.

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**Feasibility Study**

**What are the user’s demonstrable needs?**

User needs a web-based system, which will remove all the above-mentioned

Problems that, the user is facing. The user wants a web-based system, which will reduce the bulk of paperwork, provide ease of work, flexibility, fast record finding, modifying, adding, removing and generating the reports.

**How can the problem be redefined?**

We proposed our perception of the system, in accordance with the problemsof existing system by making a full layout of the system on paper. We tallied the problems and needs by existing system and requirements. We were further updating in the layout in the basis of redefined the problems. In feasibility study phase we had undergone through various steps, which are described as under:

How feasible is the system proposed? This was analyzed by comparing the

Following factors with both the existing system and proposed system.

**Cost**

The cost required in the proposed system is comparatively less to the existing system.

**Effort**

Compared to the existing system the proposed system will provide a better working environment in which there will be ease of work and the effort required will be comparatively less than the existing system.

**Time**

Also the time required generating a report or for doing any other work will be comparatively very less than in the existing system. Record finding and updating will take less time than the existing system.

**Labor**

In the existing system the number of staff required for completing the work isMorewhile the new system will require quite less number of staff.

**Specification Report**

**System Interface**

Application would be a self-contained system. It will not access data of any other application nor will other application have access to its data.

**User Interface**

Application will be accessed through a Java Interface. The interface would be viewed best using 1024 x 768 and 800 x 600 pixels resolution setting. The software would be fully compatible. No user would be able to access any part of the application without logging on to the system.

**Hardware Interface**

**For Server**

• Intel Pentium III or above with

• 512 MB RAM

• 4 GB hard disk

Network Interface

MY SQL SEVER

**Software Interface**

**For Server**

**For Client**

• Windows 2000 Enterprise

Edition and above

• MY SQL sever

• Eclipse

**Operations**

**Client Side**

Interactive operations using options provided in the application, Example Data

Entry generation and viewing of reports.

**Server Side**

Database backup should be taken every day. In case of data base crash, last backup should be restored.

**User Characteristics**

The end user of the software can be divided into two categories

**Administrator**: Access to master forms for the purpose of data entry and generation of reports. He/she manage each and every details of any students and of courses

**Operator**: Access to his corresponding records and giving examination only.

**Bottlenecks Identified in Existing System**

The first problem is that there are loads of hard copied documents being generated. This brings us to the age-old discussion of keeping information in the form databases versus keeping the same on sheets of paper. Keeping the information in the form of hard-copied documents leads to the following problems:

**i. Lack of space**– It becomes a problem in itself to find space to keep the sheets of paper being generated as a result of the ongoing discussion. The documents being generated are too important to be ill-treated.

**ii. Filing poses a problem** – Filing the documents categorically is a time consuming and tedious exercise.

**iii. Filtering is not easy**– It becomes hard to filter relevant documents for the irrelevant ones if the count of the same crosses a certain manageable number.

**iv. Reviewing becomes time-consuming –**

All the process done manually at the centers and all the records are maintained on the papers. So the maintenance of the record is very difficult in the departments and as well as it’s very difficult for the workers to check the record. The Existing system is paper based, time consuming, monotonous, less flexible and provides a very hectic working schedule. The chance of loss of records is high and also record searching is difficult. Maintenance of the system is also very difficult and takes lot of time.

**v.**Result Processing is slow due to paper work and requirement of staff.

**Need for the New System**

To solve these problems they required a computerized system to handle all the works. They required a web based application that will provide a working environment that will be flexible and will provide ease of work and will reduce the time for report generation and other paper works.

**Aims and Objective**

The main purpose behind the proposed system is to provide a comprehensive computerized system, which can capture, collate and analyze the data from these wards and evaluate the impact of the program.

**Constraints, Assumptions, Dependencies**

**Constraints**

As this system is based on client server technology, so for normal operation minimum of 64 MB RAM will be required on all clients.

**Assumptions**

In general it has been assumed that the user has complete knowledge of the system that means user is not a naïve user. Any data entered by him/her will be valid. To make the software as user friendly as possible but at the same time keeping in minds user requirements and all details will verified by the admin

**Dependencies**

It depends that the one should follow the international standards for the generating the User ID & should fill the related information in the proper format.

**Software System Attributes**

**Usability:**The links are provided for each form. The user is facilitated to view and make entries in the forms. Validations are provided in each field to avoid inconsistent or invalid entry in the databases. Some forms consists Hyper Links, which provides further details. Reports screen contains text boxes and drop down lists, so that reports can be produced.

**Security:**Application will allow only valid users to access the system.

Access to any application resource will depend upon user’s designation. There are two types of users namely Administrator and Student. Security is based upon the individual user ID and Password.

**Maintainability:**The installation and operation manual of examination management system will be provided to the user.

**Availability:**System will be available around the clock except for the time required for the backup of data.

**Portability:**The application is developed in Java using Eclipse. It would be portable to other operating system provided .NET Framework is available for the OS. As the database is made in MY SQLporting the database to another database server would require some development effort.

**Acceptance Criteria**

The software should meet the functional requirement and perform the functionality effectively and efficiently which are as follows:

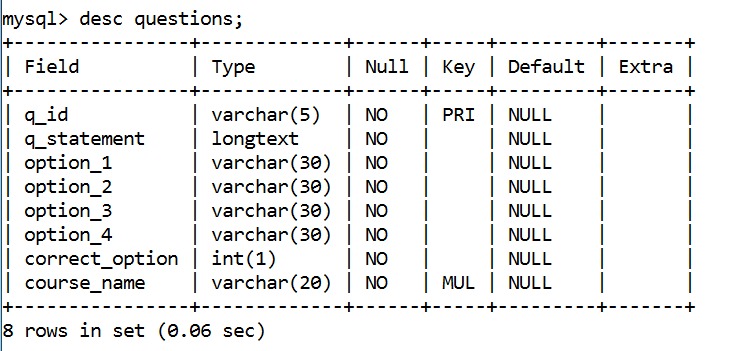
• A user-friendly interface with proper menus.

• Data transfer should be accurate and within a reasonable amount of time keeping in mind the network traffic.

• The system should not allow entry of duplicate key values.

• System should have the ability to generate transactional Logs to avoid any accidental loss of data.

• Log file should also be generated.

**Snapshots of Data Tables**

