

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum -590014, Karnataka State, India



## A MINI PROJECT REPORT ON

### “ONLINE QUIZ PORTAL”

*Submitted on partial fulfilment of academic requirement of 5<sup>th</sup> semester*

### BACHELOR OF ENGINEERING

### IN

### INFORMATION SCIENCE & ENGINEERING

### DBMS Laboratory with Mini Project (18CSL58)

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## **CERTIFICATE**

It is certified that the mini project work entitled “ONLINE QUIZ PORTAL” carried Out By TEJASWINI K.N (ISJ18IS115) in partial fulfilment for the award of Bachelor of Engineering in Information Science and Engineering in fifth semester of the Visvesvaraya Technological University, Belgaum during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect to fifth semester miniproject work

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**TEJASWINI K.N (ISJ18IS115)**

# **ABSTRACT**

We are going to create a project regarding the management of “ONLINE QUIZ PORTAL(SITE)”.

IT is a web application. The main objective of online quiz is to efficiently evaluate the candidate thoroughly through a fully automated system that not only saves lot of time but also gives fast results. This can be used in educational institution as well as in corporate world. No restriction that examiner as to be present when the candidate Take the test. This web Application provides facility to conduct online examination worldwide. It is automatically generated by the server. Administrator has a privilege to create, modify and delete account for teachers. Students can register, login and give the test with his specific id. Students can also see who has scored the highest.

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# Chapter 1

## INTRODUCTION

### 1.1 DATABASE

A database is an organized collection of data. A relation database, more restrictively, is a collection of schemas, tables, queries, report, views, and other elements. Database designers typically organize the data to model aspects of reality in a way that supports processes requiring information, such as modelling the availability of rooms in hotels in a way that supports finding a hotel with vacancies.

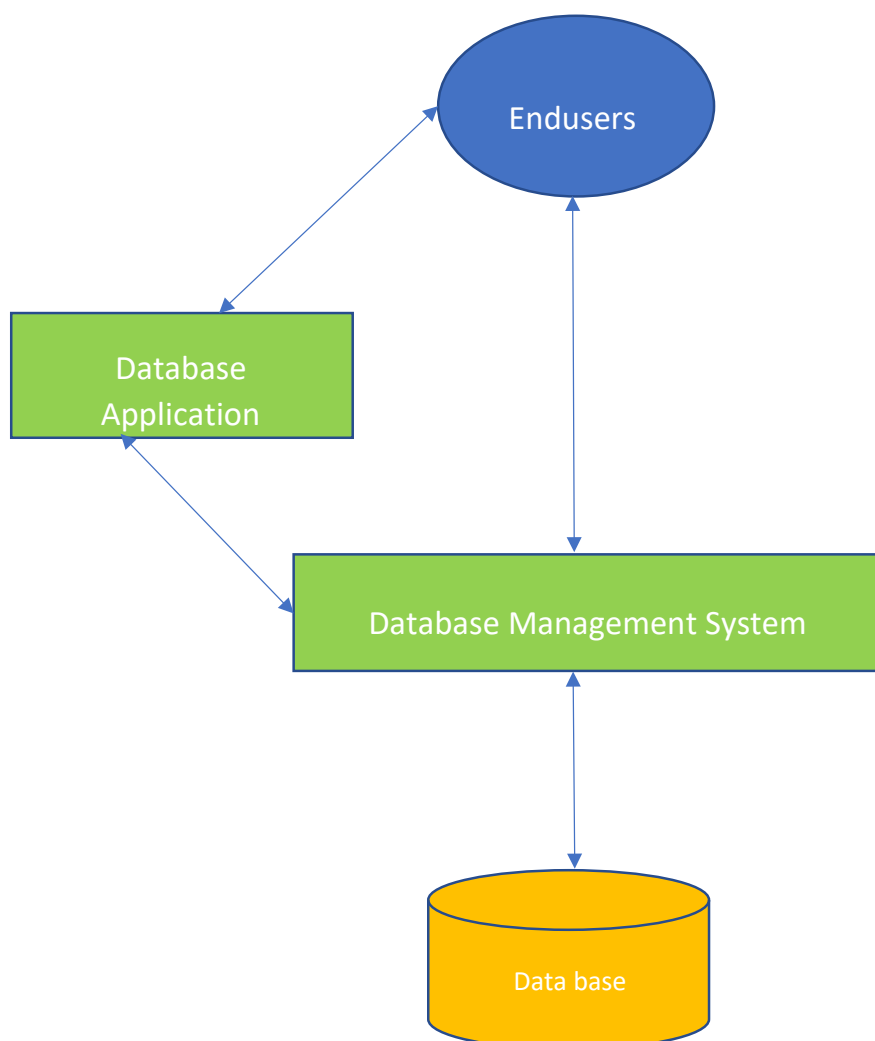
A database is not generally portable across different DBMS, but different DBMSs can interoperate by using standards such as SQL and JDBC to allow a single application to work with more than one DBMS. Computer scientists may classify database-management system according to the data base models that they support; the most popular database systems since the 1980s have all supported the relational model—generally associated with the SQL language. HB sometimes a DBMS is loosely referred to as a “database”.

### 1.2 Database Management System

A database-management system (DBMS) is a collection of interrelated data and a set of programs to access those data. This is a collection of related data with an implicit meaning and hence is a database. The collection of data, usually referred to as the database, contains information relevant to an enterprise. The primary goal of a DBMS is to provide a way to store and retrieve database information that is both convenient and efficient. By data, we mean known facts that can be recorded and that have implicit meaning. For example, consider the names, phone numbers, addresses, age of the person you know. You may have recorded this data in an indexed address book, or you may have stored it on a diskette, using a personal computer and software such as DBASE IV or V, Microsoft ACCESS, or EXCEL. While information can be transported, stored or shared without many difficulties the same cannot be said about knowledge.

Database system are designed to manage large bodies of information management of data involves both defining structures for storage of information and providing mechanisms for the manipulation of information. In addition, the database system must ensure the safety of the information stored, despite system crashes or attempts at unauthorized access. If data are to be shared among several users, the system must avoid possible anomalous results.

Fig 2.1:Database Management System



## 1.3 Application

**Database Are Widely Used. Some Of The Representative Application Are:**

1. **Banking:** For Customer Information, Accounts And Loans And Banking Transactions.
2. **Universities:** For Student Registration And Grades.
3. **Online Shopping:** Everyone Wants To Shop From Home. Everyone New Products Are Added And Sold Only With The Help Of Dbms. Purchase Information, Invoice Bills And Payment, All Of These Are Done With The Help Of Dbms.
4. **Airlines:** For Reservation And Schedule Information.
5. **Credit Card Transactions:** For Purchases On Credit Cards And Generation Of Monthly Statements.
6. **Library Management System:** Maintain All The Information Related To The Book Issue Dates, Name Of The Book, Author And Availability Of The Book.
7. **Telecommunication:** For Keeping Records Of Call Made, Generating Monthly Bills, Maintaining Balances On Prepaid Calling Cards.
8. **Sales:** For Customer, Products And Purchase Information.
9. **Finance:** For Storing Information About Holdings, Sales, And Purchases Of Financial Instruments Such As Stocks And Bonds.

## 1.5 Oracle

Popular Choice Of Database For Use In Web Applications And Is An Open Source Product. The Process Of Setting Up A Mysql Database Varies From Host To Host, However We Will End Up With A Database Name, A User Name And A Password. Before Using Our Database, We Must Create A Table. A Table Is A Section Of The Database For Storing Related Information. In A Table, We Will Set Up Different Fields Which Will Be Used In That Table. Creating A Table In Phpmyadmin Is Simple, We Just Type The Name, Select The Number Of Fields And Click The ‘ Go’ Button. We Will Then Be Taken To A Setup Screen Where You Must Create The Fields For The Database. Another Way Of Creating Database And Tables In Phpmyadmin Is By Executing Simple Sql Statements. We Have This Method In Order To Create Our Database And Tables.

The Current Version Of The Oracle Database Is The Result Of 30 Years Of Innovative Development. Highlights In The Evolution Of Oracle Database Include The Following:

- Founding Of Oracle

In 1977, Larry Ellison, Bob Miner, And Ed Oates Started The Consultancy Software Development Laboratories, Which Became Relational Software, Inc. (Rsi). In 1983, Rsi Became Oracle Systems Corporation And Then Oracle Corporation.

- First Commercially Available Rmsdb

In 1979, Rsi Introduced Oracle V2(Version 2) As The First Commercially Available Sql-Based Rdbms, A Landmark Event In The History Of Relational Databases.

- Portable Version Of Oracle Database

Oracle Version 3, Released In 1983, Was The First Relational Databases To Run On Mainframes, Minicomputers And Pcs. The Database Was Written In C, Enabling The Database To Be Ported To Multiple Platforms.

Version 4 introduced Multi Version Read Consistency Version 5, Released In 1985, Supported Client/Server Computing And Distributed Database System Version 6 Brought Enhancements To Disk I/O, Row Locking, Scalability And Backup And Recovery. Also, Version 6 Introduced The First Version Of The PL/SQL Language, A Proprietary Procedural Extension To SQL.

## 1.6 Introduction To Project

Today, online quiz system is considered a fast-developing examination method because of its accuracy and speed. It is also needed less manpower to handle the examination. Online quiz project in PHP is very useful to learn it, according to today's requirement **online quiz 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 quiz system is a web-based application system where quiz examination given in online either through the internet or intranet using computer system.

The **Online quiz** is a web application for to take online test in efficient manner and no time wasting for checking the paper. The main objective of ONLINE QUIZ is to efficiently evaluate the candidate thoroughly through a fully automated system that not only saves lot of time but also gives fast results. For students they given papers according to their convenience and time and there is no need of using things. This can be used in educational institutions as well as in corporate world. can be used anywhere any time as it is a web-based application (user location doesn't matter).

No restriction that examiner has to be present when the candidate takes the test.

It is done in order to improve student comprehension levels and learning

## **CHAPTER 2:**

### **LITERATURE SURVEY**

#### **Related work**

Now a days Online Quiz are very useful in educational system. The online quiz portal is a site where students takes the online test. It helps to know how much the students are understanding the topic through by the teacher or learnt online. The student can take the test even in the absence of the teachers. A literature reviews revealed research and studies based on implementation of (online exams in a traditional classroom) technologies in educational system. “The internet has opened many possibilities for the classroom instruction but it can be also a barrier to teaching as well”. The new innovative technologies provide opportunities to improve and learning and creating more exciting and innovating environment. The accessibility to the professor for fast and easy feedback was a great asset.

Research on student perceptions and satisfaction with online courses provide insights to student reactions and satisfaction with the implementation of online exam. Hale (2007) found that students satisfaction survey revealed that the most important reason for taking a distance education course is its convenience.

Steinman (2007) found that. “Many students choose to enroll in online courses and the demand for the online course can provide education experience that would otherwise be unavailable especially for the students who leaves in rural areas do have convenient access to schools”. Mark Row (2000) founded that “online courses offer convenient learning and the students who take online class are working hard. They are just doing it at their own pace on a schedule and in a setting that worked for the”. Attending the random quiz will help to regain the topics learnt and helps to improve the performance of one also helpful for the teachers to know the understanding levels of the students and make any changes in teaching if required. Since at present condition all the teaching going online, the online quiz site will be helpful for both the students and teachers as well.

There are many different researches have focused on the subject of an online examination system as follows:

Table 2.1: summary of literature survey

1	Guzman SIETTE is an online Examination	17-03-2005	Is a web based environment to generate and construct adaptive test	Track who has taken your Quizor who hasn't	By creating are turning event, you will Improve your consumer loyalty
2	Rashed Et. Al web-based online Quiz called Exam management system (EMS)	2010	It collects the answer, auto work the submission, and produced the reports for the test	Random choices, Random question selection, Random questions distribution	Easy to- use, Autograding, Environment friendly, Highly secure
3	Dr. Matthew Et. Al Is a Computer based test system (CBTS)	2013	The development life cycle and the conceptual design like Activity diagram, Entity relationship diagram	Immediate grading, Feedback, MultipleTest	Designed to support Examination process and overcome challenges framing the conduct of Examination

## Chapter 3

### PROBLEM STATEMENT

#### 3.1 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.

#### DRAWBACKS OF EXISTING SYSTEM

- **Lack of space** – It becomes a problem in its self to find space to keep the sheets of paper being generated as a result of the going discussion. The documents being generated are too important to be illtreated
- **Filling poses a problem** – Filling the documents categorically is a time consuming and tedious exercise.
- **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.
- **Reviewing becomes time-consuming** -All the process done manually at the centers and all the record are maintained on the paper. So that the maintenance of the record is very difficult in the departments and as well as its 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 record is high and also record searching is difficult. Maintenance of the system is also very difficult and takes lot of time.
- **Result processing**- is slow due to paper work and requirement of staff.



### 3.2 PROPOSED SYSTEM

This web application provides facility to conduct online examination worldwide.

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 results. 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.

### ADVANTAGES

- **Engage your audience**

Engage your audience in a unique and fun way and connect them to your brand or learning material. By creating a returning event, you will improve your consumer loyalty.

- **Large number**

Taking online quizzes makes it possible to have a large number of participants. It could be up to a number of 1000 participants (and even more!). it doesn't matter at what kind of location they take the online quiz as long as they are connected to the internet.

- **Randomizing questions**

It is more Significant easy to randomize your question with just one click than to do it all manually. Randomizing question and when answers of those question is not a lot of work to do with online quizzes. Besides the advantage of time saving, it is also helps preventing students from cheating

- **Quiz results/ gain insight in audience**

Another plus of online quizzes is getting immediate results from your participants. Not only does the creator get results, the participant itself is also possible to get his or her results.

## **BENEFITS**

- **No instructor needed**

Quizzes can be given without an instructor, which saves money and time:)

- **Set timer**

The creator is able to set a timer for the whole quiz or set a timer per question. This is possible to do with written quizzes, but it is very time consuming for the instructors, it's almost impossible to do with a huge amount of participant.

- **Better overview**

It's possible to show one question at the time with online quizzes. People are not able a reminder that you can't leave the answer blank.

- **Improve your brand**

There are several ways to gain more brand awareness: generate new interactive sales opportunities, improve time spent on site and improve the sharing on social media about your campaign and brand.

## **Conclusion**

A large number of participants, with instant results of your online quiz (for the creator as well as the participants), a better overview, your able to randomize your questions and set a timer. That all without the need of an instructor.

What's holding you back to not use online quizzes?

## Chapter 4

# REQUIRMENTS SPECIFICATION

### 4.1 Hardware Requirements

The Physical Components Required Are:

- **Processor-** Intel Pentium Processor At 500 Mhz Or Faster.
- **Memory-** 256MB RAM Or More.
- Wi-Fi Card OR Ethernet Card.
- Mouses Or Others Pointing Device.
- Keyboard
- Hard-Disk Drive/Optical Driver.

### 4.2 Software requirements

The softer being used are:

- Operating system (ex: windows 10)
- X amp server
- Subline text editor
- Internet browser (ex: chrome)

## REQUIREMENTS

### 4.3 Front end

#### Introduction to visual basic

Visual basic is most popular programming language in the world, and generally use as a front end for database application. There are some important reasons to use visual basic rather than others. Capability, flexibility, familiarity, popularity. The “visual” part refers to the method used to create the graphical user interface (GUI).

## 4.4 Back end

### Introduction to MYSQL server

MYSQL is a relational database management system. A relational database stores data in separate tables rather than putting all the data in one big storeroom. This adds speed and flexibility. The SQL is part of MYSQL stand for “structured query language”.

## 4.5 Case tool

### Introduction to rational rose

This is a brief overview to get students started in using rational rose to quickly create object-oriented models and diagrams. It is not by any means a complete introduction to rational rose, but it should get you started.

- \* Getting started
- \* Use case diagram

## **Chapter 5**

# **IMPLEMENTATION**

### **5.1 MODULES**

The system has various modules:

- Admin
- Login
- Feedback

#### **5.1.1 Admin:**

The admin will perform various function.

- \* views user who had attended the quiz.
- \* provides the question for the quiz.
- \* Has the answers for the quiz questions.
- \* views the score of users.
- \* views the rank of the users.
- \* views feedback given by the users.

Admin will need separate login information i.e. phone number, password, username.

These will be created using SQL query from offline database.

#### **5.1.2 Login:**

The login will perform various functions.

- \* create new user by registering
- \* Allows user to fetch the details from database for logging next time.
- \* User attains the quiz.
- \* User can check their score.
- \* User can also give the feedback.

# CONCLUSION AND FUTURE ENHANCEMENT

## CONCLUSION

The theoretical inclination of our syllabus it becomes very essential to take the utmost advantages of any opportunity of gaining practical experience that comes along. The building blocks of this mini project “**Online quiz portal**” was one of these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as a computer engineer. The project from a personal point of view also helped us in understanding the following aspects of project development:

- The planning that goes into implementing a project.
- The importance of proper planning and an organized methodology • The key element of team spirit and co-ordination in a successful project.

The project also provided us the opportunity of interacting with our teachers and to gain from their best experience.

The online quiz system is developed using java and sql fully meets the objectives of the system for which it has been developed.

The system solves the problem. It was intended to solve as requirement specification.

## Future Enhancement

1. The feedback will be sent to candidates through their emails.
2. We are trying to do the project at best level to satisfy all the end user requirements.
3. In our future we are decided to provide more security to our website which may not be hacked.
4. The certificate will be provided to the candidates based on their performance

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