# PROJECT REPORT ON

**QUIZ MANAGEMENT SYSTEM USING JAVA**

Submitted to

*Department of Computer science and engineering* in partial fulfillment for the award of the degree of ***BACHELORS OF TECHONOLOGY***

Batch (2020-2024)

***Submitted by***

Name of the student: Aashish Kushwaha Enrollment Number: GE-202016554

**Under the Guidance of Ms. Sarishma Dangi**



**GRAPHIC ERA DEEMED TO BE UNIVERSITY DEHRADUN**

Clement Town, Dehradun -248001



# CANDIDATE’S DECLARATION

I hereby certify that the work presented in this project report entitled “Quiz management system using java**”** in partial fulfillment of the requirements for the award of the degree of Bachelors of technology is a bona fide work carried out by me during the period of February 2022 to July 2022 under the supervision of Ms. Sarishma Dangi, Department of Computer science and engineering, Graphic Era Deemed to be University, Dehradun, India.

This work has not been submitted elsewhere for the award of a degree/diploma/certificate.

Aashish Kushwaha

### Name and Signature of Candidate

This is to certify that the above mentioned statement in the candidate’s declaration is correct to the best of my knowledge.

Ms. Sarishma Dangi

### Date: 17-July-2022 Name and Signature of Guide

**Signature of Supervisor Signature of External Examiner**

**Acknowledgement**

Every project begins with an idea and materializes with concrete efforts. In the beginning I would like to thank the almighty God Who gave the strength and capabilities to work on this project and complete it successfully.

I would like to express my profound gratitude to **Ms. Sarishma Dangi, Assistant Professor, Department of Computer science and engineering,** for their immense support, valuable guidance during this project.

Aashish kushwaha

**Candidate Name and Signature**

|  |  |  |
| --- | --- | --- |
|  | **Table of Contents** |  |
| 1. Introduction |  | **1** |
| 2. Problem Statement |  | **2** |
| 3. Brief Motivation |  | **3** |
| 4. Tools |  | **4** |
| 5. Methodology |  | **5** |

1. **Introduction**

The "Online Quiz System" was developed to overcome common problem in the practice manual system. This software is used to eliminate and in some cases reduce difficulties encountered by this legacy system. Moreover, this system is designed for the specific needs of the School , Colleges and Online learning platform to carry out the operations smoothly and efficiently. These parts can be listed out as follows:

The application is minimized to avoid errors when entering data. It also provides an error message when entering invalid data. Users do not need to have formal knowledge to use this system. So by all this, it proves that it is user-friendly. The quiz management system, as described above, can lead to a management system that is error-free, secure, reliable and fast. This can help users focus on activities other than record keeping. This will help the organization use resources more efficiently.

Every Institute, big or small, has challenges to overcome and manage Question, Course, Student, Results, Quiz information. Each online questionnaire system has different course needs, that's why I have designed a Quiz management system to fit your management requirements. This is designed to aid strategic planning and will help ensure that your organization is equipped with the right level of information and detail for your future goals. Plus, for busy executives who are always on the go, our systems are remotely accessible, allowing you to manage your workforce anytime, anywhere. when. These systems will ultimately allow you to better manage your resources.

The software is made to overcome the drawbacks of the manual system. The software has been developed using the most powerful and secure backend MYSQL database and the most widely accepted web oriented as well as application oriented.

1. **Problem Statement**

Now a days creating, maintaining and evaluating test and exam manually for student is a very complex task handle by school management and teachers, Since the entire system must be maintained manually, the process of maintaining, storing and retrieving information is tedious and time consuming. So I have designed Quiz management to automate the existing manual system, To fulfil their requirement and their valuable data/information can be stored for a longer period with easy accessing and manipulation on the same.

The current problem in the standard school’s is did not have systematic arrangement of information in the exam management. When the teacher or school staff want to go through old records of student performance it becomes a laborious task. Other problem that can be happen is hard to search and update the student information about academic arrangement.

Below is the problems that occurs in standard school while using manual system.

* 1. Lack of data arrangement that is record by using manual system and using a lot of paper to record the school information.
  2. The manual system is hard to search and update about the student information, Academics information

So, I prepared this website, to make the information feasible and easy to access for student and school staff.

## Brief Motivation

The main Motivation of the Quiz management system is how well your software is organized will determine, Not only teachers as well as Student have a positive experience with your software, but so do all those who rely on it for important Quiz information. A user-friendly Login page will have two option one for student to give their credential and login for their exam and another one for Administration to create an exam and mange results.

The records were never kept in a logical order. There used to be lots of difficulties in associating any particular information with a particular context. If any information was to be found it was required to go through the different registers, documents there would be unnecessary consumption of time while entering and retrieving records.

Your Admin page has features like Add new question, update question, delete question, all student result which is designed to give admin to fully and comfortably manage all the records and work .It establishes the tone for the rest of the admin experience. Smooth experience for student to login and attempt exam make this system far better than traditional method.

Every institute have their own set of standards, which begin with ensuring the level of exam management. Everyone want it to be easily manageable and secure. This management system can full fill the needs of the any institute and can also be modified accordingly.

The aim is to automate its existing manual system by the help of computerized equipment 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 the same.

**Functionalities provided by Online Quiz System are as follows:**

* Provides the searching facilities based on various factors. Such as Course, Topic,

Student, Quiz

* Online Quiz System also manage the Result details online for Student details, Quiz details, Course.
* It tracks all the information of Question, Result, Student etc.
* Manage the information of Question Shows the information and description of the Course, Topic
* To increase efficiency of managing the Course, Question
* It deals with monitoring the information and transactions of Student.
* Manage the information of Course Editing.
* Adding and updating of Records is improved which results in proper
* Resource management of Course data.
* Manage the information of Student.
* Integration of all records of quiz.

**4.Tools**

First, the system must be evaluated from a technical point of view. This feasibility assessment should be based on a general design of the system requirements for inputs, outputs, programs and procedures. Once the draft system has been defined, an investigation should be carried out to suggest the type of equipment, the method needed to develop the system, and the method of operating the system once it has been designed. The technical issues raised during the investigation were:

* Does the existing technology sufficient for the suggested one?
* Can the system expand if developed further?
* The project should be developed such that the necessary functions and performance are achieved within in the constraints. The project is being created using cutting-edge technology..

An appropriate study of functionality, performance, and constraints that may affect the ability to achieve an acceptable system has been performed. For this feasibility study, I have researched the complete functions provided in the system as described in the Software Requirements Specification (SRS) and I have checked if everything is possible. using different types of frontend and backend platforms. As a result, the technical feasibility was satisfied at all ends.

The tools that we were requiring were all available to us they are:-

### Hardware Requirements

Processor: Any RAM: 1 GB

HDD Capacity: 100GB

### Software Requirements

This product is developed mainly using opensource technologies like: Database: MySQL

Technology : Java

Documentation Tool: Microsoft Office 2010 Operating System: Windows

## 4.1 Definition, Acronyms and Abbreviations:

ADMIN: Administrator. DEO: Data entry operator.

RAM: Random access memory. ROM: Read only memory.

GUI: Graphics user interface. GB: Giga Byte.

SRS: Software Requirement and Specification. OS: Operating System.

DBMS: Database Management System.

SQL: Structured Query Language.

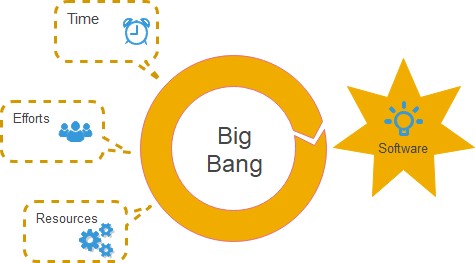
HDD: Hard Disk Drive.

DD: Data Dictionary.

## 5.Methodology Big Bang Model

This project follows the Big Bang model. This model is ideal for small projects with one or two developers working together and is also useful for academic or practice projects. Easy to manage and no formal procedures are required, Few resources required. Most important It is a good learning aid for newcomers or students. Database and design changed as per requirement .

It is recommended to go for the Big Bang model only due to the following cases i.e.

1. Developing a project for learning purposes or experiment purposes.
2. No clarity on the requirements from the user side.
3. When newer requirements need to be implemented immediately.
4. Changing requirements based on the current developing product outcome.
5. No strict guideline on product release or delivery date.

References:

Youtube: <https://youtu.be/jMgWl-0-JaY>

Websites: <https://docs.oracle.com/javase/7/docs/api/java/awt/package-summary.html>

Books : Java the complete reference, seventh edition