

# QUIZZER

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**Abstract** - Now a days students and teachers are facing many difficulties in studying and teaching respectively due to the “online mode” education because of COVID-19 pandemic. In this paper, we discuss about how taking exams/quizzes can be easier for the teachers. This site is used by the teachers for not only taking the exams but also for keeping the records of their respective students marks of every tests.

**Key terms** – Quiz, Java Swing, AWT, Java applets, MySQL database.

## INTRODUCTION

This is a project based on JAVA Swing, AWT and MySQL. The purpose of this simulator is to take the exam/quiz in the efficient manner and not wasting the time in checking the paper. It also evaluates the marks of the candidate thoroughly through automated system which not only saves time but also gives fast results.

It is also beneficial for the students as they can give paper according to their convenience and time and they do not need extra paper or pen. This desktop application consists of frontend and backend.

The frontend is created using Java Swing, AWT and applets and the backend is created using MySQL database. The backend is used to store the questions that are already available and it also helps to store the updated questions also.

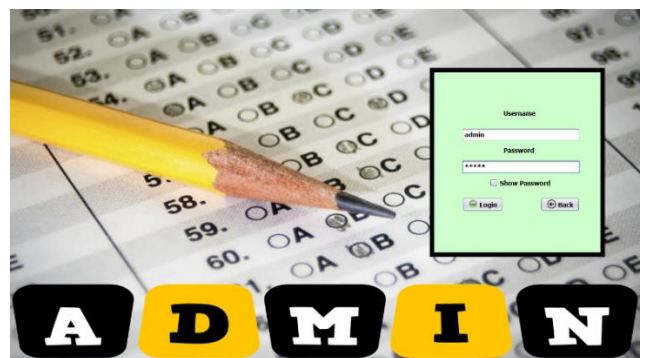
When you open the student module, one form will be present on your screen, so to access the test/quiz first of all one has to fill up that form and then start the test. Test consists of the questions which will be generated by the admin. Admin can generate the question of his/her category subjects. Time for the tests can also be set by the admin i.e., either 10 minutes or 30 minutes.

The functioning is simple to use. It consists of the following features: - Login page, student page, it also consists of the options to add/delete the questions or also one can update the question. It not only shows the marks of the current exam/test but also it also keeps the analysis or result of your previous tests.

## REASONS TO LEAD THIS PROJECT

There are many ways that teachers can take the tests/exams on the online mode through different quiz conducting application.

But our application is basically the desktop application and it has the advantage that it shows the results of current as well as the previous tests also, so basically that is the reason that is leading our project with respect to other quiz conducting applications. And in our application, one has to first of all login as per given username and password then only they can access the exams/tests.



From this admin can login and generate the exam/quiz

## OVERVIEW

The quiz desktop application created for taking tests has the following stages:

- [1] Login
- [2] Test
- [3] Result

### Login

There is quality window because this is more secure than other login forms as in normal login form there are multiple logins available so more than one person can access to test with their individual login.

It includes two login windows one for the administrator and other for the student.

### Test

Test page is the most creative and important age in this project. It consists of following modules namely:

*Add new question* - In this one can add questions as per his/her choices.

*Update question* - If user wants to update the question that he/she doesn't like then they can do it through this module.

*All questions* - In this all the questions that user has entered are shown in one page only.

*Delete question* - If the user doesn't like that question, then they can delete the question through this module.

*All student results* - It shows the results of different students on a single panel.

*Logout* - On clicking this user can logout from their account.

*Exit* - It will directly close the application.

### Result

It shows the particular student's result.

Also shows the result of every student giving the exam.

## SURVEY

There are many works based on this type, i.e., there are many applications that are being used by the teachers and professors to conduct the exams/tests/quizzes. Before we started, we had gone through many quiz conducting mobile applications, online website where we had some common things that they all shows the results of the particular and current test. We had tried to add a feature of showing the results of the current test as well as the previous tests in our work, so by that one can also analyze his/her marks.

## SCOPE

The scope of this project is for all the users of any age who wish to give the quiz or exam or can also generate questions and prepare for the National and International level exams, it is easy to use. The user only requires username and password to access the exam.

## METHODOLOGY

IDE: Apache NetBeans

Language:

Frontend: Java Swing and AWT

Backend: MySQL

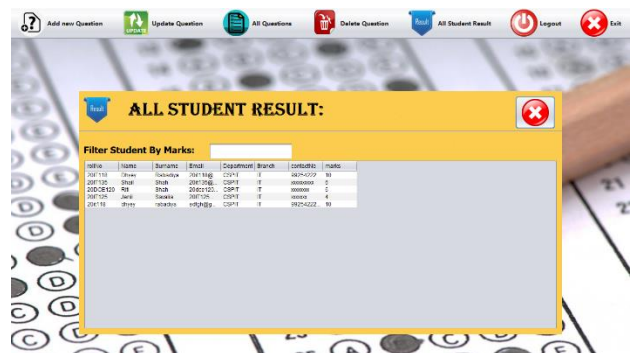
Java Swing and AWT is used to create the frames and design that particular frames by adding some icons. MySQL is used to create database and tables to handle the data entered by the user, by this database one can save the question that is being entered by the user.

## WHY USE OF QUIZZES?

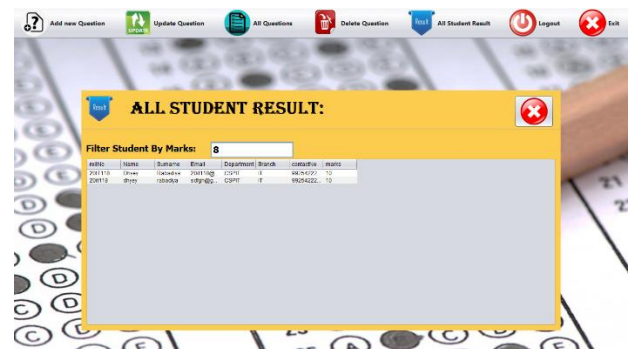
Quizzes help students identify what they know and what they don't know. The students then have a better idea of how well they are grasping the material, hopefully motivating them to study more and helping them to allocate their study time effectively by focusing on the information that still needs more practice. What's more, though, in some cases a test can make the next study opportunity more effective. Teachers can help students see what topics they are not grasping by providing feedback after quizzes; and that feedback need not be immediate to be most effective.

## WHY USE OUR APPLICATION?

One can use this application because it is easy to use for both the teacher as well as student respectively. Although our application provides username and password to the teacher so only particular professor/teacher can access their account. Further more our application also shows the results of particular students of previous tests and also shows the results of every student by marks by choosing "Filter students by marks" option.

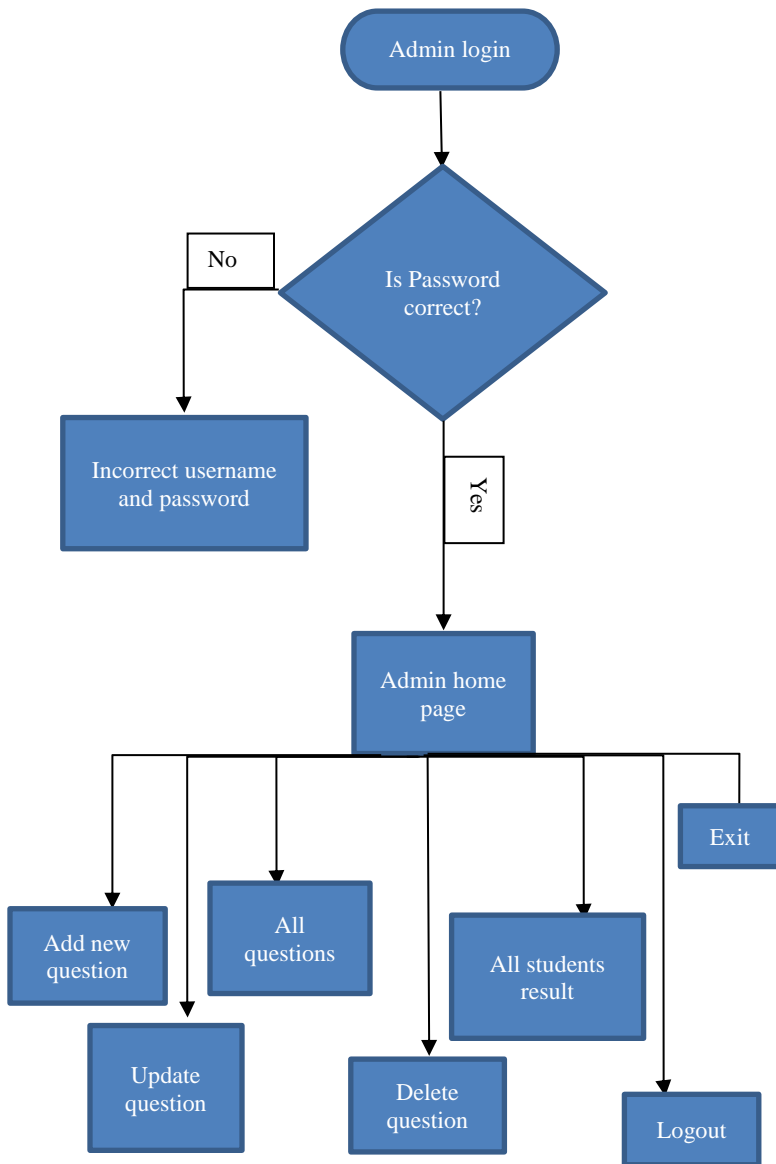


Here we can see the results of all the students in single panel



Here we can see the result by filtering the marks

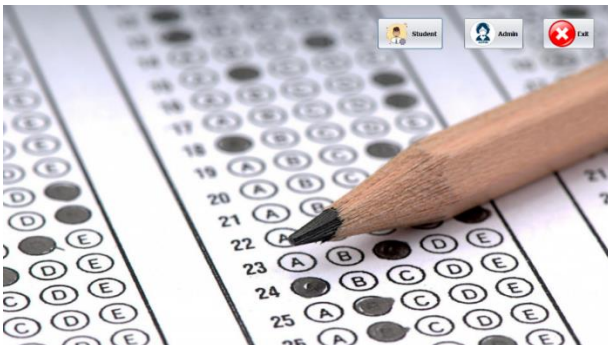
## FLOW OF THE PROJECT



## FUNCTIONALITY

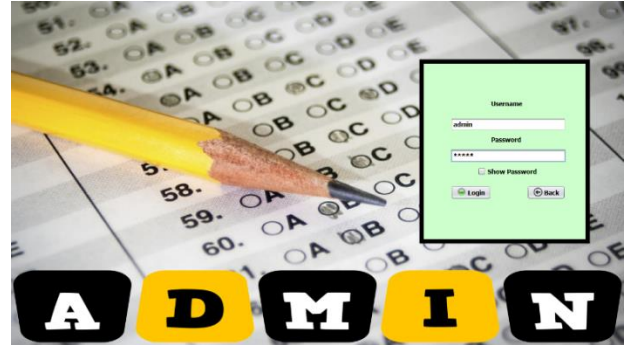
### Home page

It consists of buttons i.e., Student info, Administrator info and exit button.



### Admin

On clicking on admin, one will move to the login page and entering the correct username and password, navigation bar opens which includes the details of the questions and if any user wants to delete the questions, also it shows the result of all the students. And on clicking on exit button user will go back to the home page.



### Student

On clicking on student, the student will have to fill up one form which includes Roll number, Name, Surname, Email address, Contact number, Branch, Department. By entering the student's details then only you will be able to give the test/exam.

A screenshot of a 'FILL UP THE FORM' window. It contains input fields for 'Roll Number', 'Name', 'Surname', 'Email', 'Department' (dropdown), 'Branch' (dropdown), and 'Contact Number'. A 'Save/Next' button is at the bottom. An illustration of a group of students is shown on the right.

A screenshot of a 'WELCOME' test interface. It displays student information: 'Roll Number: 2021118', 'Name: Dhruv', 'Total Questions: 10', 'Question Number: 00', and 'Your Marks: 00'. The date is '12-11-2021'. The 'Total Time' is '10:00' and 'Time Taken' is '00:00'. The main area shows a 'Question demo?' with four radio buttons labeled 'jRadioButton1' through 'jRadioButton4'. 'Next' and 'Submit' buttons are at the bottom.

This is the demo of how questions will appear for the test

## FUTURE WORK

We have used Java Swing, AWT and applets for the frontend part and for the database we have used MySQL, and we also thought of converting this desktop application into mobile application so everyone can easily access our application and there will be no need to open laptop/PC for the quiz/exam.

## CONCLUSION

Quiz conducting application is very easy and simple to use and access. One can give the exams as per his/her choice and by adding that categories particular questions. We have future plan to add the categories section so that the user does not have to enter the questions manually and it will be easy for the user to give the exam of that particular category.

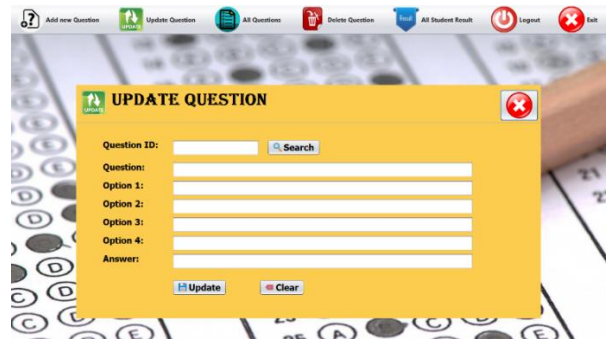
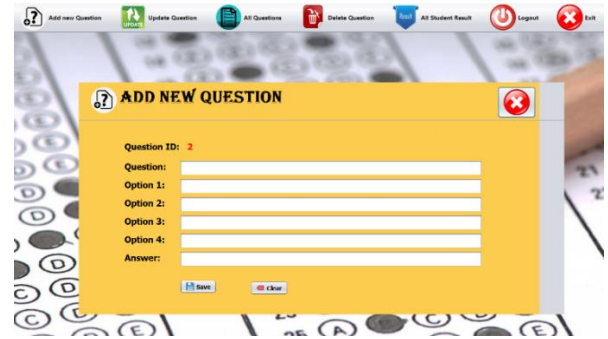
It also helps the user for the practice of the competitive exams like JEE, NEET, CAT, etc. and also for the National and International level exams.

## ACKNOWLEDGEMENT

First and foremost, I would like to thank our sir who gave us the correct information and guided us in doing this project. He provided us invaluable advice and helped us in solving our errors. His motivation and help contributed tremendously to the successful completion of this project. Also, I would like to thank my family and friends for their support.

## References

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- [2] [https://thesai.org/Downloads/Volume7No5/Paper\\_8-Quizzes\\_Quiz\\_Application\\_Development\\_Using\\_Android.pdf](https://thesai.org/Downloads/Volume7No5/Paper_8-Quizzes_Quiz_Application_Development_Using_Android.pdf)
- [3] <https://youtu.be/zbnFv1SZIXE>



ID	Question	Option 1	Option 2	Option 3	Option 4	Answer
1	What is the capital of India?	Delhi	Mumbai	Chennai	Kolkata	Delhi

We have created database so that the data can be handled which is being enter by the user