

MINI PROJECT
(2020-2021)
E-Quiz App
(Flutter App Development)

SYNOPSIS

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Name / Title of the Project

A flutter based e-quiz android application

The Problem statement

Quiz Contest is an application developed to conduct a quiz based on time constraints. The Quiz Contest system is accessed by entering the username and password which is added to the database. Before the start of the quiz, the rules and regulations are displayed that include description of the time limit, number of questions to be answered and scoring methods. Quiz is started by displaying one question with four options each based on computer and general knowledge. If the answer is correct, the score is incremented by four and no negative marks for wrong answers. If the time exceeds 20 secs the next question will come automatically after giving a few limited question answer quiz application will finally direct you to the score page. Final score will be displayed and updated in the database with username.

Reason for selecting the topic

The software Quiz application manages the activity of quiz conduction in a school or college or any institution or even as the first test for the recruiters. The system is user friendly and the user will find it easy to answer the question. The Admin/employee will not find any difficulty in calculating the total marks scored by the student. The system will thus reduce paperwork and all the information will be stored safely in the database.

This project is helpful in saving the students' details, calculating the marks scored by each student and for obtaining the names of the top students who will be selected for the next round. Physical exams conducted in this time of COVID-19 are not possible and safe. That's why we selected to develop a platform where exams can be conducted.

Objectives of the project

The main objective of "Quiz Contest" is to facilitate a user friendly environment for all users and reduce the manual effort. In past days quiz is conducted manually but in further resolution of the technology we are able to generate the score and pose the queries automatically. The functional requirements include to create users that are going to participate in the quiz, automatic score and report generation and administrative tasks like add, delete, update for admin privilege users. In this application, all the permissions lie with the administrator i.e., specifying the details of the quiz with checking result will show to interviewee or not, addition of question and answers, marks for each question, Set timer for each quiz and generate report with score for each quiz.

Literature Survey / Feasibility Study

The Quiz application is used for conducting quizzes for school or college students or this software can also be used by the company for the recruitment process. At first, the student is needed to register his/her name along with all the information needed and need to select username and password for the login process. Using this username and password, the student can login into the “QUIZ” software. Next procedure is answering the quiz. As soon as the student selects the quiz menu strip, the questions with 4 options will be displayed. The student has to type any one option and click on the next option. ON this click the next set of questions and answers will be displayed. This will continue till the end of the question.

The admin has the authority to add or modify any questions or options. The answers of each question will be saved in the database. The result option shows the marks of all students who answered in the descend order so that the admin cab obtained top students who can go for the next round. The Admin provides username and password for others, so that they can check the result in the absence of Admin but not for students. A search option will also be provided to search the student’s details using the students’ login name.

Future Scope

Quizzes have been a crucial part of assessment of the knowledge gained about any subject. It has changed from time to time. Now the way of conducting quizzes is changing from digitalisation. Digital quizz apps will be in demand in future. As per the statistics, India will be having 975 million users of the internet. This brings the opportunity of creating a digital environment of quizzes.

- An AI system can be included in the app which can put up the questions according to the knowledge base of the students.
- More functionalities can be added in the app to make it more efficient and purposeful
- The User Interface can be improved according to the experience of the users.
- Different types of sounds can be added to make it more interactive and enjoyable.

Methodology (Including a Summary of the Project)

Registration: The student who is answering the quiz is supposed to register his name, college, contact, email id and also should select a password of his own. As soon as registration is complete, that particular student can login with his name and password he chose as input.

Quiz: As soon as the student selects the quiz menu strip, the questions with 4 options will be displayed. The student has to type any one option and click on the next option. ON this click the next set of questions and answers will be displayed. This will continue till the end of the question.

Result: This shows the result of all the students who answered in the descending order. Only Admin has the authority to view it.

Search: A search option will also be provided to search the student's details using the student's login name.

Hardware & Software to be used

Software Used:

- VS Code Editor for coding purpose
- Android Studio for compilation of the code
- Software Development Kit(SDK)

Hardware Used:

- A Laptop or a PC for app development.
- Android device for testing/debugging.

Testing Technologies to be used

The objective of our test plan is to find and report as many bugs as possible to improve the integrity of our program. Although exhaustive testing is not possible, we will exercise a broad range of tests to achieve our goal. We will also test the user friendliness of our app .The application will be used as an important tool, but we would like to ensure that it could be run on a variety of platforms with little impact on performance or usability.

What contribution would the Project make and where?

This project will be helpful in many ways such as conducting online quizzes in colleges, schools, training institutes, for recruitment purposes. It will seamlessly simplify the process of internal markings in practical and theoretical exams in schools and colleges. This project can be used to teach children of primary classes in a very interactive manner.

Scope for extension into a major project

There are various points on which this project can be extended into a major project.

- More functionalities like learning material for the quiz can be added.
- Multiple classrooms functionality can be included.
- Session Login and Logout functionality can be included.
- AI based algorithms can be implemented to make the quiz performance efficient.
- Performance measure dashboard can be added with various features.

Conclusion

“QUIZ” software developed for a school or to a college has been designed for time reduction taken for conducting a quiz, for calculating the marks, for shortlisting the student’s name, hence increasing the efficiency. It is designed to replace an existing paperwork and correction manually. The system uses VB .Net as front end and Microsoft SQL as a backend for the database. The implementation of the system in the organization will considerably reduce time and also provide readily calculated marks.

Reference/Bibliography

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- www.wikipedia.org
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