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## QUIZ APPLICATION DEVELOPMENT USING ANDROID

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**Abstract:** This work deals with the development of Androidbased multiple-choice question examination system, namely: Quizzes. This application is developed for educational purposes, allowing the users to prepare the multiple choice questions for different examinations conducted on provincial and national level. The main goal of the application is to enable users to practice for subjective tests conducted for admissions and recruitment, with the focus on Computer Science field. This quiz application includes three main modules, namely (i) computer science, (ii) verbal, and (iii) analytical. The computer science and verbal modules contain various sub-categories. This quiz includes three functions: (i) Hint, (ii) Skip, and (iii) Pause/life-lines. These functions can be used only once by a user. It shows progress feedback during quiz play, and at the end, the app also shows the result.

**Keywords**—Android

### I INTRODUCTION

Development of Android-based Quiz application is mainly required by students and learners to prepare themselves for different examinations directly through Smart-Phones and tablets in hands. The main aim of this project is to facilitate students in learning, gaining and improving their knowledge skills. At the meantime, our app provides them fun so that the users can prepare for interviews, entrance tests or any other corresponding purposes in a fresh mood and can't get bored or frustrated due to the dullness of application. We designed the application to facilitate the users to be able to take short quizzes using portable devices such as smart phones and tablets.

### II LITERATURE SURVEY

Byers and Alnarp [1] proposed an Interactive Learning Expert System for the Quizzes. They. In [2], authors proposed multiple-choice based quiz application using QuickBasic and JavaScript. Finally, the accuracy of correct answers is displayed after calculation. This quiz provides users the

feature of making their own quiz. The operational version of the afore-mentioned system is available at [3].

The Web-based expert system proposed by [4], is the Student Edition for learning and preparation. It is a multiple choice quiz system. After each and every question, five choices are given. Users can select a single choice at a time. After giving an answer to all of the questions, users will submit the answers, and then a result or progress report is displayed containing total number and accuracy of correct, incorrect and un-answered questions. Email facility enables the users to send email to: their own id, an instructor, TA, and others.

The Quiz Hub [5] is an online Interactive Learning Quiz Games, focused on facts. This quiz has many sub-categories. It provides many fields to users, students and learners for the learning purpose. The categories are Math facts, U.S. History, Multiply fractions, Vocabulary Quiz, Spelling Quiz Game, Physics, and others. It is not a multiple choice quiz; one has to select the matching pairs in this quiz. Android is rapidly getting famous day by day, and the number of its users are increasing with each passing day, because it is

easy to access the necessary Android-based applications on smartphones and tablets. Therefore, we found this idea easy and time efficient to facilitate the users in this way without any difficulty. There are many online quiz applications available on the internet, but most of them are only for entertainment and fun.

Moreover, if one is going to appear in any test or interview, then it is time-consuming for them to read the full books or articles related to specific fields for the preparation or revising their knowledge.

However, the most attractive feature of our app is that we take learning and fun side by side. Our app provides them the facility to revise their knowledge or to learn something advantageous at one place without wasting their time. The objective of this project is to develop an Android based system with following features, namely: (i) Questions bank, (ii) Time frame, (iii) Life lines, (iv) Data Storage, and (v) Multimedia support (pictures, snapshots, tables). The objective of creating this Quiz app is to help the users to prepare for necessary educational purposes regarding Computer Science and IT field with an easy access to our app directly on their Android phones. Through our app, users can learn and prepare themselves for interviews, tests and exams on Android phones, and can also use this app for increasing their general knowledge about Computer Science, Verbal and Analytical, everywhere and anytime. Material we used is Window 10 Haier laptop, MIT App Inventor 2 software, Windroy, QMobile Noir LT700, and Nokia Smart Phone. Although there are a number of web-based and Androidbased applications which are, one way or other related to quiz, there are only few that help in learning and contribute to the academic enhancement of the students.

Most of the available applications are aiming at having a fun or entertainment. Among the many applications, we review some Web-based and Android based applications that are quite famous and are successful regarding the amount of players and downloads. Computer General Knowledge Quiz section is a repository of Multiple Choice Question that makes you aware about evolving nature of the competitive examination; this quiz is about subjects related to the computer field. It's a general computer quiz. This quiz is useful for the preparation of any computer field test. In this quiz app, questions are given along with four choices, and at the end, the correct choice is also given. After preparation, students can check their level of preparation through the quiz [6].

It is a Computer Science Quiz. It contains multiple choice questions and answers with explanations and examples. Operating System, Database Management System, Software Engineering, Computer Networks, Digital Electronics are the sub-fields present in this quiz. These Computer Science MCQs will help users for various

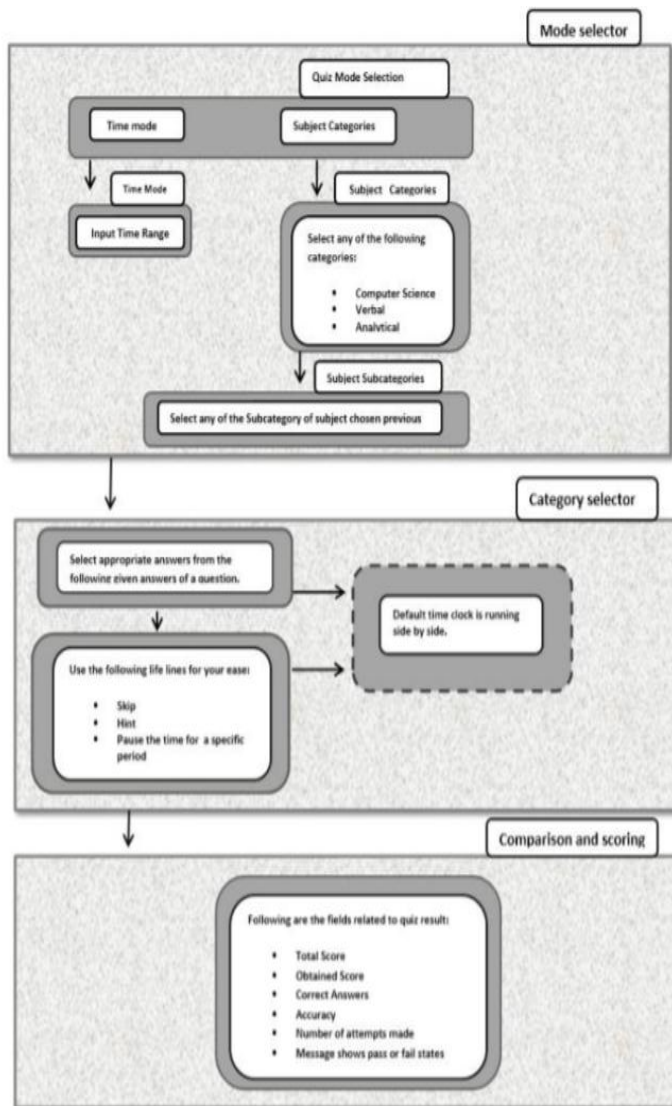
Interviews, competitive exams, entrance exams, and others [7].

TreeKnox Computer Quiz is a quiz system for the help and preparation of computer science and IT students who are going to appear in any interview, tests or exams in computer science and IT field. Questions are given along with multiple choices and at the end of each question; a button named "Answer" is given. On clicking that button the correct answer is highlighted at the mean time [8].

This quiz application is very simple and interactive. In this there are two modes General and Aptitude, after selecting one of them it will be redirected to the Quiz interface which will contain the question with multiple answers (options) and contain three buttons "Submit", "Show Answer" and "Next" [9].

It is also a simple and interactive application [10]. It contains three modes "Easy", "Normal" and "Hard". After selecting one of them it will be redirected to the Quiz interface which contains questions with two options, True "T" and False "F". It also show hints when user wants but if the user will try to use this life line "Hint" more than one time then it will show the answer not hint. Thus, it is useless because user can't learn anything from it anymore. Although there are many apps that focus on the quiz, there are limited applications with focus on learning or improving knowledge in the curriculum area. Most of the other apps are entertainment-based with little focus on the educational paradigm. There are many limitations with the existing systems mentioned above. To overcome such limitations, we propose user-friendly application, namely "Quizzes," which mainly focuses on gaining the curriculum knowledge as well as entertainment. Therefore, where one is amazed at playing the quiz, he/she is gaining curriculum knowledge with emphasis on not only gaining good grades but also having a better understanding of the subject matter. Another unique feature of Quizzes that is lacking in other apps is the life lines, which it provides to the user. Users can view the hints for the right answer, can skip a question and also pause the quiz app for thirty seconds. We provided the life lines for the particular questions or the category itself, but user can use these life lines only once. Other features regarding Quizzes and other apps seemed to be quite similar, i.e. answering questions with multiple choices as fast as possible, scoring as high as possible among the group, and so on. There are many systems on the quiz-related content analysis in the context of opinion mining and other disciplines of computer science [11, 12, 13, 14, 15, 16, 17], however, most of such studies are web-based and address the user generated contents. The quiz above are either web-based recommendation systems or intelligent expert systems. Therefore, there is a need to develop an Android-based easy to use application.

### III METHODOLOGY



### IV CONCLUSION

Unlike the websites where you need to make account for every quiz you want to play & using this application based on android & you just have to login by user name and password and then you will get access to all quizzes from it! The proposed system is an application for the Android platform mobiles will help in improving the knowledge and accuracy.

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