MATH QUIZ ANDROID APPLICATION
USING SQLITE DATABASE

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ABSTRACT

In this scenario, android platform is used to develop the present application. it has been observed that android phones can be used to increase the educational skills of school going children instead of leaving them to waste their time on only playing games. Therefore, development of educational application is inherently required, specially, to improve the mathematics-related skill for children. Even though many applications present in online for such purposes. but, there is a need to develop a simple, interactive and easy to operate android-based application for improving the skill of children in basic mathematical concepts. Some came about with an educational application, named " Math quiz" for the beginners to learn basic math operations like addition, subtraction, multiplication , division etc., As well, they can check their skills by attempting quizzes. This application is very interesting for kids and provides with the students school like environment. User friendly environmentconfiguration is one of the goal for this project application.

Keywords: Andriod, Results and Mobile

1. INTRODUCTION

This Project main purpose is to develop Quiz system named 'Math Quiz. The application (Math Quiz) will provide online based quiz with multiple choice question (MCQ)[5]. This quiz application will stand for android base operating system[5]. With this math quiz application, this app will test the user math skills like

- Addition
- Subtraction
- Multiplication
- Division etc.,

Select any Quiz round which user wants to give Examination. Only one user can participate one round at a time. Once a quiz round has finished, it will display the score to the user[5]. The user can participate multiple times to check the math skills. The following tasks are define as:

- Select Desire Quiz round
- Answer questions within set time
- Finish Quiz

Development of an android-based Quiz app is sorely needed by both students and students to prepare themselves for the different exams directly with smart phones and tablets in hand[3]. One of the main aims of our project is to assist students in learning, discovering and developing their knowledge skills. In the meantime, our app provides them with fun so users can prepare for interviews, entrance exams or other related purposes in a new situation and can become frustrated or frustrated due to the complexity of the app[3]. We have designed the app to make it easier for users to take short quizzes using mobile devices such as smart phones and tablets.To install an app on an android mobile device or a tablet device user required to use a setup package named 'Math quiz .app'[2]. This package can store memory for android device and external memory card (Micro SD card that connects to android device). The package requires a maximum of 9 Mb. After copying to android device, the following steps should be followed:
□ Tap the folder where 'biz quiz' is stored.
□ Tap the application 'math quiz' package.

2. LITERATURE SURVEY

In this literature search, we can analyze an existing program such as the Math Questions application. The Math Quiz App is used for kids and is very useful for kids who spend most of their time with their android phones. A set of 10+ questions that will be very useful for kids in lesson plans[1]. It is designed as a tool for preparing children and those will help to learn the basics in math[6]. People with a tendency toward math can use this app to sharpen their IQ, test their relevant skills and enrich their knowledge[4]. This app has a variety of specific points and errors that provide a good but not only experimental interface but the questions that are asked are old fashioned and not on the go. The key fire is to make this app work faster and work well enough for students to make the most out of it[1]. For past applications such as Math Quiz, It can provide options for various queries provided by the

administrator with multiple choice queries[4]. The user will select only one of the four options. The user-tested questions will also be of great help to children in their educational subjects such as Mathematics[1]. Reasonable Reasoning helps to develop problem-solving skills by focusing on logical consultation questions[1]. Reasonable Reasoning will help you when preparing for admissions tests and some other kind of tests, but the user interface doesn't work, the user should go straight to look at the whole answer[6]. It simply has an MCQ for assessing and assessing marks .By using these apps, we can increase our knowledge and skills in mathematics[6]. These apps will increase our IQ and victims through lessons learned.

3.   PROPOSEDMETHODOLOGY:SQLITE

SQLite is included in a related database management system. SQLite is free to use for any commercial or private purpose. SQLite is different from other SQL databases because unlike other SQL databases, SQLite does not have a separate server process. Reads and writes directly to standard disk files. A complete SQL database with multiple tables, indices, constraints, and views, contains a single disk file .SQLite is a very popular database that has been used successfully in disk file format for desktop applications, financial analysis tools, media troubleshooting and editing settings, CAD packages, record keeping systems etc. SQLite is a very lightweight database, easy to use as software attached to devices such as televisions, cell phones, cameras, home appliances, etc.

SQLite can be an on-line information management system. it is not a customer database, but it is rooted in a high-level system. is a special way to use embedded software for local / customer storage in application software. The SQLite library becomes part of the application, and its functionality is monitored using simple function calls that will limit access to the database. It stores complete database including tables, definitions, indices, so the data itself is a single cross file on the machine. because it can be a small server architecture, less configuration is required for SQLite applications than server-server information Here, several processes may not be ready to write a database file for a structure thanks to. for straightforward queries with a small concurrency, the advantage of SQLite's performance in avoiding overloading its data is in a separate process. is the last reliable solution and only use it from millions of smart phones around the world.

One of the main principles of SQL knowledge is schema: the formal declaration of a database structure. The schema comes from the SQL statements use to create your database.it helpful to create a companion section, known as the contractor class, that best describes your schema design in a structured and written manner. Once ithave defined what your database looks like, should use the methods that create and maintain the database and tables. Just like the files store in the device's internal storage, Android stores your information in the private folder of your app. Your data is safe, because this location is not automatically available to other apps or user. The SQLiteOpenHelper section contains a useful set of APIs for managing your information. If can use this section to find references in your dataset, the system works longer to create and update information when needed and not during program startup. It call GetWritableDatabase () or GetReadableDatabase (). Import data into a database by passing the Content Object () method. Input () methods to return an ID for a newly created row, or it will return -1 if there is an error in the data entry. To read from the database, use the query () method, bypassing your selection method and columns. The method includes input () and update (), except for the column list that describes the information as it want to download

("prediction"), not the input information. Query results are returned to it in the Cursor item.To delete rows in a table, it will need to provide selection criteria that point to rows of the delete () method. The machine works much like a selection argument in the form of query ().

4. RESULTS AND DISCUSSION

In this android application totally there are 4 columns. First three rounds are to test user math skills. Last column is to check highscores for the first three rounds and it will show the time and score.

1. Quick maths shark

2. Time trails shark

3. Advanced shark

4. High scores

This is the page when user will open this application and it shows MATH QUIZ challenge your skills .In this ,we can have another facility for selecting the various levels as quick maths shark, time trails shark, advanced shark. The fourth level can display the high scores who can get the high score in each of these levels. In this we can ask the question like what type of shark are you today?
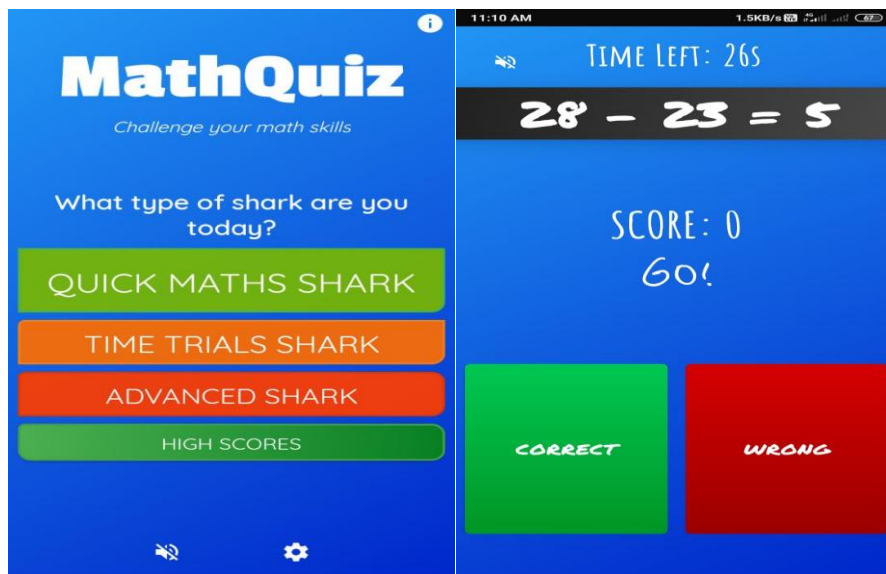

Fig.1 Quiz   Fig. 2 Quick Match shark

This is the next page of android application. This application will displays different rounds to check the mathematical skills in different aspects as shown in Fig.1.Allthese levels can display the time and how much time can left to answer the question .It can also display the score and It can also display the

comments for the users as appreciation. In this, we can answer the question in two ways as either correct(or)wrong

This is the view of the QUICK MATHS SHARK as shown in Fig.2. In this questions will be given along with correct and wrong answers. so the user can choose whether the question is correct or not. And it has time limit. In this level, we can ask the questions upto the time limit. It can also display the score. For example ,if we can answer the one question then we get the score as one. In this way ,it can display the scores and it can also give comments for appreciation. We can the question in either correct(or)wrong
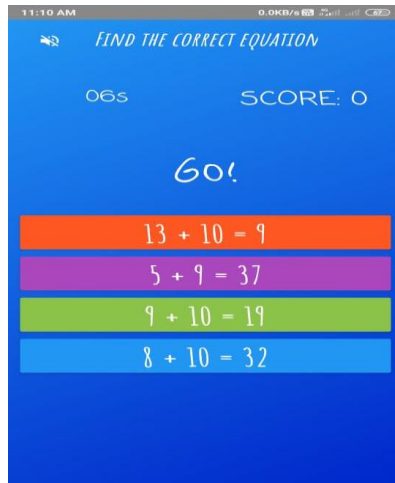

Fig.3   Time trails

Fig.4 Advanced shark

This is the overview of TIME TRAILS SHARK as shown in Fig.3. In this level,four multiple questions will be given and in this we can select only one option. In these four questions only one question is correct and the remaining questions are wrong. So the user can choose the correct option. End of the round it will display how many seconds that the user will spend in this round. In this level, It can give only 7 seconds to answer the question.

This is the overview of ADVANCED SHARK as shown in Fig.4. This level will give you multiple choice questions. User can find the correct answer, if the user want to stop the round then click on the timer to stop and this will ends with the user score and user spends time in this round. In this level, it can also give questions on square and cube roots.
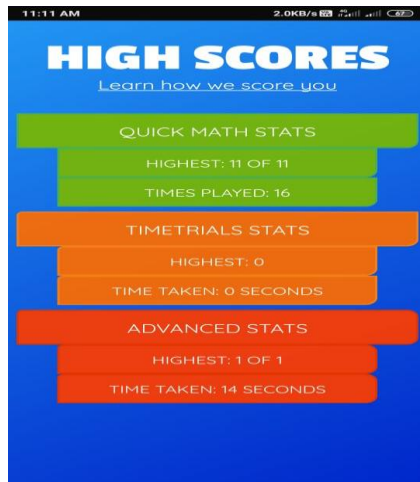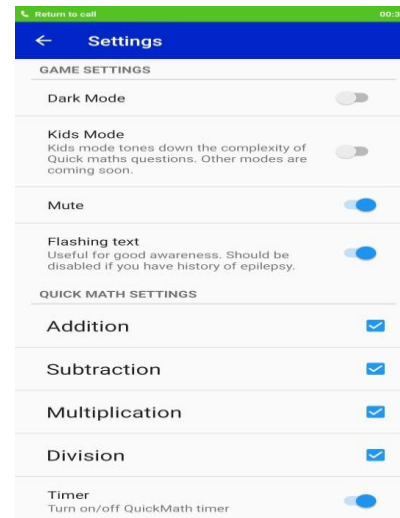
Fig. 5 Score

Fig.6 Settings

This is the overview of HIGH SCORES as shown in Fig.5. It will display the high scores and time that the user spend more for three rounds. This is the last level of math quiz application and it can also display the high scores in all three levels.

This is the setting page in math quiz application as shown in Fig.6. User can enable the kids mode then the questions should be related to kids knowledge. If user want to check their individual skills the user can enable only addition or subtraction or multiplication or division for each round. .

5. CONCLUSION

The main purpose of our project is to develop an application that offers new features for learning and improving knowledge during the education space. Most of the online entertainment apps that do not contribute to the development of student learning. The core of our queries is to provide the user with the knowledge of the tests below. With this query mathematical application, it tests mathematical skills such as addition, subtraction, multiplication, class etc., select any Quiz cycles where the user wants to give the test. These questions include a function such as Hint collectively referred to as life lines that help users answer questions correctly. These functions can be used only once by the user. When a user taps or clicks on "Hint", it will show directions by disabling two additional options from the four options, the user can easily select the option from the two. Skip options can be used in user selection. This function simply skips the current query. When a user wants some time to answer a query he will use this function to stop the queries. Frequently, the time clock is stopped by 30 seconds and this time cannot be heard the whole time. We learned a lot about Android based app and user behavior. We have found that the process of development is difficult and time consuming, but can be controlled by team work. We hope that other developers will take advantage of our / from our growth.

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