

Quiz App Based On Android

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Abstract-

Nowdays quizzes are very popular for education purpose as well as entertainment purpose. There are many quiz android apps available for android but they are different from each others in terms of content of the quiz, features of app, target users. Nowdays the gradually increase in number of Android phone users it is also increases the development of applications based on Android. This paper presents about android and the development of earning quiz android based app using android studio with Java as the programming language. This work deals with the development of an Android-based multiple-choice question examination system, namely: Quizo Reward App. Quizo Reward App is developed for practice of different entrance examination purpose with entertainment by providing features like interactive user interface, earn money, Leaderboards by which users can know their rank and wants to improve it. This app contains collection of previous year multiple choice based questions and their answer of different entrance examination.

Keywords—Android Studio, Android apps, Java, Quiz.

1. INTRODUCTION

The main work of the quiz is to measure the skill and knowledge of individuals and help them to improve it also by working on their weakness. By developing an android quiz app users can learn anywhere, anytime which helps to make learning growth faster.

We developed an example app which is named Quizo Reward and take the student as the main target users who are preparing for their entrance exam. This app contains a collection of multiple-choice based questions and their answer. Users can answer the questions and the app verifies whether it is correct or not and show the score according to the correct answers at the end of the quiz.

Android is an operating system that is basically built for portable devices like smartphones and tab. Android is an open-source software and developed by Google. Android is getting famous day by day many students are choosing the android apps for their academic

projects in their college. As the number of users of android increases, it also increases the development of apps based on the android including android quiz apps, You can see many quiz apps are available on different platforms. In this paper, I will discuss about some apps available related to this. Android is getting famous day by day and therefore many students go for android development as their career opportunities.

Android is developed by Google, and it is open-source software means it is available for free for everyone. The main goal of make an android app is to provide the app to the users that they can use on their portable devices like smartphones and tab whenever they want.

Android app is less complicated and easy to use & therefore users having less knowledge about technology can also use the android app easily. Android is giving updates to make the operating system fast and secure by fixing bugs and adding some feature in updates. The user interface of android is interactive and easy because it targets the different level of users from programmers to naive users. Development of an android app is not as difficult as it seems, you just have some basic idea about the android layout and some knowledge about java programming to built a small level of apps. Android is an open-source software for portable devices like smartphones, tab, etc.

1.1 Android Studio

At the Google I/O conference on May 16, 2013 Android Studio was announced. Android Studio was designed for the development of an android app, it was built on JetBrains's IntelliJ IDEA software and it is the official Integrated Development Environment (IDE) android operating system. It is supported on Windows, macOS and Linux based operating systems [1]. Users can download without any charges.

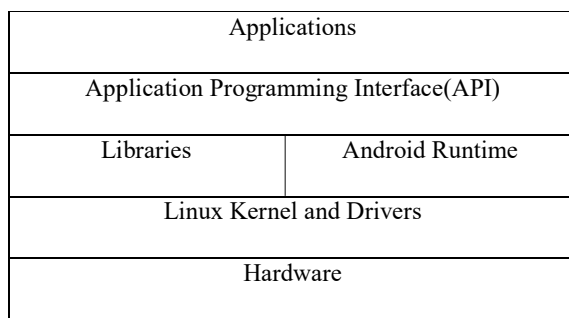
The early access preview stage of android studio starting from version 0.1 comes in May 2013, after that the first beta version 0.8 was released in June 2014 and finally the first stable version 1.0 was released in December 2014 [1].

2. ABOUT ANDROID

2.1 Android Operating System

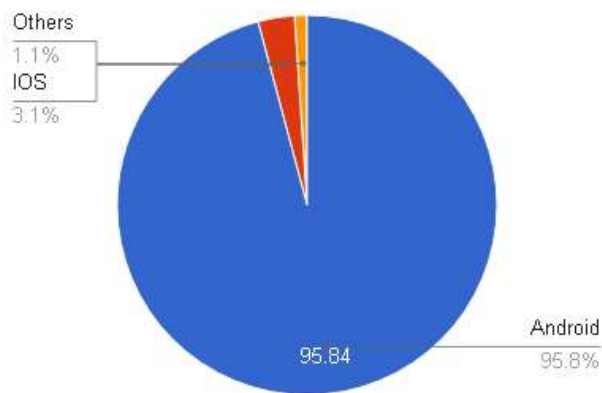
The android operating system is initiated by Open Handset Alliance (OHA) and Google. Android OS is based on Linux kernel version 2.6x.

Android Architecture [2]



Because of accessibility and portability android is getting famous day by day and therefore its users are also get increasing rapidly. According to statista.com in 2021 android held the share of 95.4% OS market in India for mobile, 3.1% by Apple IOS and the rest 1.06% by other OS [3].

Share of Mobile Operating System in India (2021)



2.2 Android Versions

Android operating system (OS) release its Android beta version Android 1.0 in November 2007, and then in September 2008 the first commercial version was released. Android was introduced by Google and OHA which stands for Open Handset Alliance, and since its first release, many updates come to improve the previous versions. Here are the name and versions of android till now [4]-:

- Alpha (1.0)
- Beta (1.1)
- Cupcake (1.5)
- Donut (1.6)
- Éclair (2.0–2.1)
- Froyo (2.2–2.2.3)
- Gingerbread (2.3–2.3.7)
- Honeycomb (3.0–3.2.6)
- Ice Cream Sandwich(4.0–4.0.4)
- Jelly Bean(4.1–4.3.1)
- KitKat (4.4–4.4.4)
- Lollipop(5.0)
- Marshmallow (6.0)
- Nougat (7.0)
- Oreo (8.0)
- Pie (9.0)
- Android 10
- Android 11
- Android 12

Android version 4.1 is the incremental update provided after the Google conference meeting on 27th June 2012. This update improved many functionalities and performances. We can say that it was the turning point for an Android after that Android got famous. Android provided their source code for free and under open-source license.

3. PROPOSED WORK

3.1 Purpose of the Quiz App

By considering students as the main target users this application has been developed which helps the student to prepare for their exams without getting bored. Quizo Reward app mainly focuses on the students who are preparing for the entrance exam they can prepare themselves by playing more and more quizzes on their mobile phones or tablets. The main objective of our app is on the improvement of knowledge and skills of the students for their entrance exam by playing quizzes. Our app also provides fun to the users with the help of features of the app like earning coins and withdrawing the amount according to the coin they get, leader-boards which provides a competitive environment among the users, so users want to play more and more quizzes without getting bored.

3.2 Proposed System

- **Sign-up**

Users can create an account to use the app by setting the user name and password and providing details like name and refer code.

- **Login**

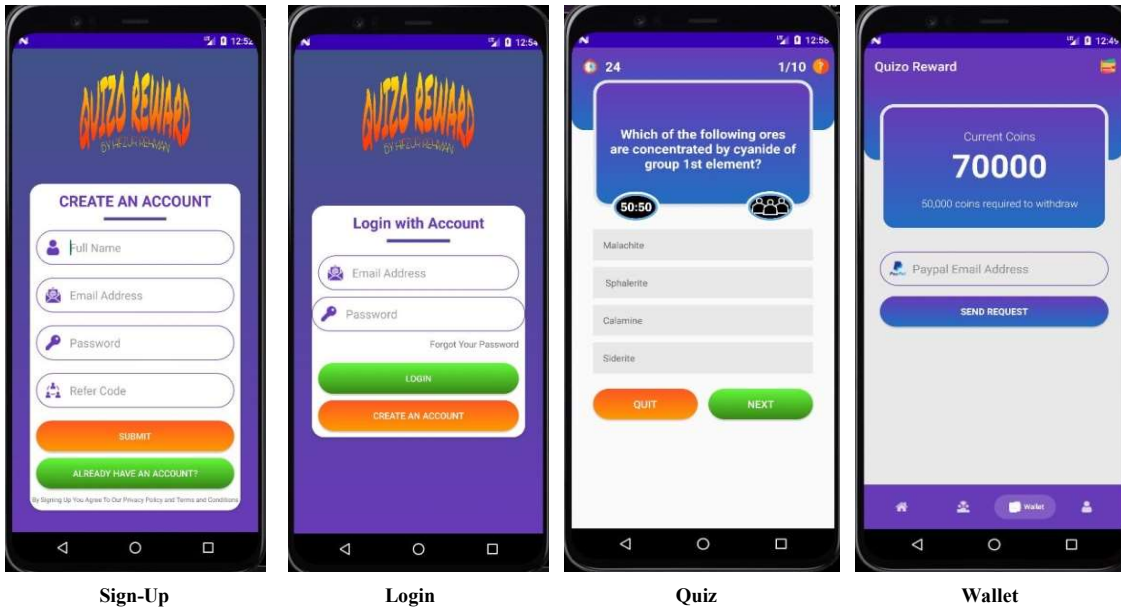
After successfully creating an account user can log in by giving validated username and password. After login user is redirected to the main screen of the app, in the main screen users can see the different categories of quiz, like JEE Mains, NEET, CAT, etc.

- **Quiz**

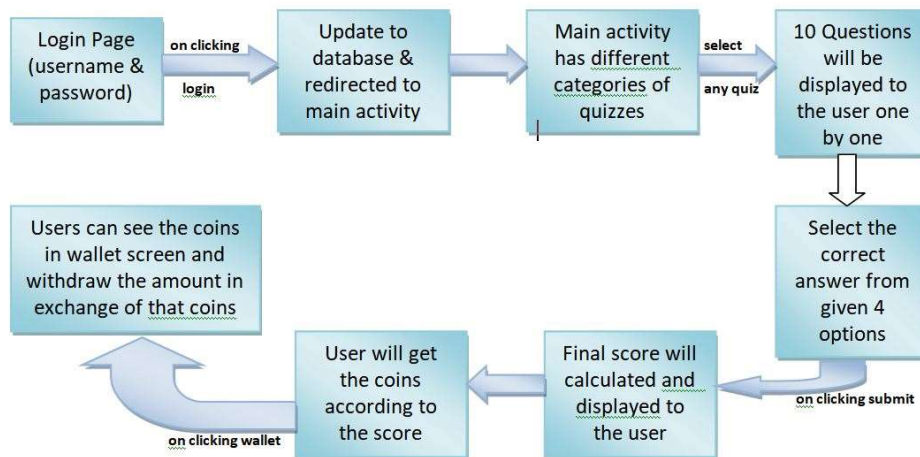
Quiz question and their options will be displayed one by one in this section after clicking on a particular category of quiz from the main screen. Each quiz contains 10 questions and the final score will be displayed after the completion of the quiz.

- **Wallet**

In this option, users can see their earned coins and withdraw the money in exchange for coins by providing their Paypal Id.



3.1 System architecture [5]



4. RELATED APPS

There are some apps that exist related to my app, but they are not the same as my app. We can say that our app is a combination of the below-listed app which take the student as the main target. In the below apps, some have an entrance exam quizzes, but they not have withdraw money option and some have withdraw money option but do not have an entrance exam quizzes they have some other kinds of quizzes like G.K, Maths, English, etc.

The following apps name, link, description are:-

- 1) NAME = Exam Preparation: Live Classes

LINK=<https://play.google.com/store/apps/details?id=co.gradeup.android>

In this app, quizzes are available for many entrance exams, but there is no option of withdraw money and leaderboards due to which users show a lack of interest towards the app. It also has other functions like live classes and video lectures but our goal is to just make an app for students to practice for their entrance exams by playing quizzes whenever they want with interest and fun.

2) **NAME** = GrandQuiz

LINK=<https://play.google.com/store/apps/details?id=com.chellobee.grandquiz>

This app has quizzes as well as leaderboards

and coin earning system, but there is one issue these quizzes are not for entrance exam preparation this app have quizzes like maths, general knowledge, sports, etc. but I want to make an app for students who are preparing for entrance exams like JEE Mains, NEET and prepare by playing quizzes which contains previous year questions and answers but in GrandQuiz app users can enjoy the app but can not prepare for their exams.

3) **NAME** = Qureka: Play Quizzes & Learn

LINK=<https://play.google.com/store/apps/details?id=qureka.live.game.show>

This app is a very famous app available in the categories of the quiz this app has an earning system and also have Exam preparation quizzes, but there are more quizzes also available besides that which leads a student to lose their focus on a single exam preparation quiz and that is why we only add exam preparation quizzes in our Quizo Reward app which helps students to fully concentrate on their exam preparation quizzes. Qureka contains many Quizzes including live quizzes, cricket quiz, exam preparation quiz, etc. and when student want to install this app who only needs to prepare for the exam by playing quizzes so they lose their concentration and wants to play other quizzes also this is the main drawback of this app according to me.

5. CONCLUSION

By considering the students as the main target those are preparing for their entrance exams this app has been developed in the most chosen operating system for mobile which is android. Different applications have different options like some have earning systems some have quizzes for entrance exams some have a very interactive user interfaces but all these options are not available in a single place. This application has been developed to merge the best options from the existing system which will provide users an environment for preparing for their exams without getting bored. Android is the most preferred operating and getting more famous day by day and users of android are also get increase rapidly.

5.1 Future Scope

Users of android applications get increase day by day therefore the development of android applications also get increases. Android helps to create a new era by sharing open-source software like free applications for mobile devices. Android opens up a vast area of possibilities with the help of new features and individual desires, that is why the future of android and its Software Development Kit is very broad. Also as per the rapid increase in the users of an android there is a high chance that android applications will create the future because more than 60% of the population is using and developing an android application.

6. REFERENCES

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