

# An Efficient Method for Conducting Online Quiz Using Mobile Application

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**Abstract - The main goal of this Application is to motivate students to be engaged in specific content where he/she is interested in and get strong on their subject .The user can show their interest in particular area to participate. This Application is an android application that provides a new technique of writing exam using Mobile phones. This application is especially developed for people who usually write exams on computer. Questions are loaded from the admin to the database. At the end of the exam this application displays the total score of the particular exam.**

## I. INTRODUCTION

In the past couple of years we have witnessed tremendous growth in mobile users all over the world as the entry of smart phones in the market at affordable prices has triggered their usage. We have experienced a major shift in the way we access the internet today with mobiles becoming the primary access point for internet usage. In today's fast paced world, phones are not just used for calling, writing, games etc., but with smart phones we can schedule our complete day, check emails, make conference calls, connect using social network and a perform a host of other activities.

The growth of mobile phone market has generated a huge demand for various mobile applications. Numerous mobile phone applications are available that simplify various tasks for the users due to which we saw an accelerated growth of software application development for mobile devices. Mobile application development is the course of action by which application software is designed and developed for hand-held devices like mobile phones, personal digital assistants, etc.

Earlier mobile developers faced many difficulties while writing applications as they had to build better, unique, competing and hybrid applications which would incorporate command tasks like messaging, contact list and calling in a user friendly manner. The launch of Android smart phones in the market brought a revolution in Mobile Application Development. Mobile Application Development was never as easy as it is now.

Every phone vendors/proprietary platforms like Android, Apple iPhone OS, RIM Blackberry OS, Bada OS, Symbian OS provide their own SDK (Software Development Kit) to the developer. Developers can create applications using this kit. Developers are also provided a space/place/market where they can publish their creations to the world.

With the advent of mobile technology, more and more people are moving away from using traditional desktop

devices and use their mobiles to get the required information they need. This shift has created a demand for information to be easily accessible on mobile devices and in turn has created a fast paced and rapidly growing mobile app industry. Educational demand and in this lesson we will cover all aspects of what a mobile app is, the market place and why mobile application design skills are in such high demand and used for the project design CSS is a style sheet language that describes the presentation of an HTML (or XML) document. CSS describes how elements must be rendered on screen, on paper[2],

Android powers hundreds of device types with several different screen sizes, ranging from small phones to large TV sets. This class shows you how to implement a user interface that's optimized for several screen configurations

*Android Emulator* -A virtual mobile device that runs on our computer which is use to design, debug, and test our applications in an actual Android run-time environment. Welcome to the world of mobile development era. Congratulations on choosing a long-lasting industry as your career path. Predictions about the future of mobile devices are coming out that the popularity of applications will peak by 2020 with around 10 million apps available worldwide. At core of Android Studio is an intelligent code editor capable of advanced code completion, refactoring, and code analysis. The powerful code editor helps you be a more productive Android app developer. New project wizards make it easier than ever to start a new project. Start projects using template code for patterns such as navigation drawer and view pagers, and even import Google code samples from Gather.

Build apps for Android phones, tablets, Android Wear, Android TV, Android Auto and Google Glass. With the new Android Project View and module support in Android Studio, it's easier to manage app projects and resources. Android Studio comes pre-configured with an optimized emulator image. The updated and streamlined Virtual Device Manager provides pre-defined device profiles for common Android devices. Create multiple APKs for your Android app with different features using the same project. Manage app dependencies with Android. Build APKs from Android Studio or the command line. Details can thorough[4].

SDK, or Software Development Kit, will enable you to create applications for the Android platform. The Android SDK includes sample projects with source code, development tools, an emulator, and required libraries to build Android applications. You will learn how to set up the android SDK kit and set up sample projects and view them in the SDK emulator. We will also look at the source code and how the SDK architecture is structured. Explanation can be view from [9].

## II. EXISTING SYSTEM

As we know in every educational institution conducts regular exams related to the curriculum. To conduct these examinations, they need plenty of exam papers to be printed and to do this in the background need to cut the trees. To encourage the green revolution and to make a sustainable change in the education system there are no modern mobile applications. We have a traditional approach of writing the regular exams using a pen and paper which is now became miserable for conservation of trees.

## III. PROPOSED SYSTEM

The proposed system has two different modules, one is web application for administrator purpose and the other is mobile application for user (student).Initially the user has to get registered in the respective interface provided in the application. When the user gets registered the credentials are stored in the database where the credentials are supposed to enter in the login page. Here the user details are verified with database, if the user has entered the correct details he will be logged in.

The user can view the examination notification along with proposed tips, formulae, and guidelines to write the test. When the notification is arrived he need to write the exam by entering the one time password provided to him. Then he can go with the exam till the end of time, later completing exam he will get the results instantly.

### 3.1 Database Design:

The general theme behind a database is to handle information as an integrated whole. A database is a collection of interrelated data stored with minimum redundancy to serve many users quickly and effectively. After designing input and output, the analyst must concentrate on database design or how data should be organized around user requirements. The general objective is to make information access, easy quick, inexpensive and flexible for other

users [5]. During database design the following objectives are concerned, database tables that are used

- Add exams: This module is used to add type of exam by the admin credentials.
- Update exam: In this administrator can update the exam as change questions and delete.
- View Users: In this admin can view the details as how many users are logged-in and registered.
- View Result: In this module admin can view the result exam written by the users(students) and as well as users can also view the result after submission exam.

### 3.2 Get Android Studio

Android Studio is the official IDE for Android app development, based on IntelliJ IDEA. On top of IntelliJ's powerful code editor and developer tools, Android Studio offers even more features that enhance your productivity when building Android apps, such as:

A flexible Gradle-based build system Build variants and multiple APK file generation

Code templates to help you build common app features[5]. A rich layout editor with support for drag and drop theme editing Lint tools to catch performance, usability, version compatibility, and other problems. Code shrinking with ProGuard and resource shrinking with Gradle Built-in support for Google Cloud Platform, making it easy to integrate Google Cloud Messaging and App Engine.

### 3.3 Project Structure

Each project in Android Studio contains one or more modules with source code files and resource files. Different types of modules include:

- Android app modules
- Test modules
- Library modules
- App Engine modules

By default, Android Studio displays your project files in the *Android* project view, as shown in figure 1. This view is organized by modules to provide quick access to the key source files of your project.

All the build files are visible at the top level under Gradle Scripts and each app module contains the following three elements:

- Manifests: Manifest files.
- Java: Source code files.
- res: Resource files.

The Android project structure on disk differs from this flattened representation. To see the actual file structure of the project, select Project from the Project drop-down (in figure 1, it's showing as Android).

You can also customize the view of the project files to focus on specific aspects of your app development. For example, selecting the Problems view of your project displays links to the source files containing any recognized coding and syntax errors, such as missing an XML element closing tag in a layout file.

To create a snapshot of the Android app heap memory, click the Dump Java Heap icon in the Memory Monitor. Android Studio creates the heap snapshot file with the fi in the *Capture* tab. Double-click the heap snapshot file to open the HPROF viewer.

To convert a heap dump to standard HPROF format in Android Studio, right-click a heap snapshot in the *Captures* view and select Export to standard .proof.

Android Studio allows you to track memory allocation as it monitors memory use. Tracking memory allocation allows you to monitor where objects are being allocated when you perform certain actions. Knowing these allocations enables you to adjust the method calls related to those actions to optimize your app's performance and

memory use.

### *Code inspections*

In Android Studio, the configured lint and other IDE inspections run automatically whenever you compile your program. In addition to the configured lint checks, additional Interlay code inspections and annotation validation run to streamline code review.

Android Studio enables several lint checks to ensure: Cipher.getInstance() is used with safe values In custom Views, the associated declare-styleable for the custom view uses the same base name as the class name Security check for fragment injection. Where ever property assignment no longer works as expected many others. Hovering over an inspection error displays the full issue explanation inline for easy error resolution. There is also a helpful hyperlink at the end of the error message for additional error information.

With Android Studio, you can also run lint inspections for a specific build variant, or for all build variants. You can configure the lint inspections that run by adding a lintOptions property to the Android settings in the build.gradlefile.

### *Screenshots*

*Homepage:* When the user logged-in user visits the homepage. In this user can select among the options shown below and to take test and tips figure(1).

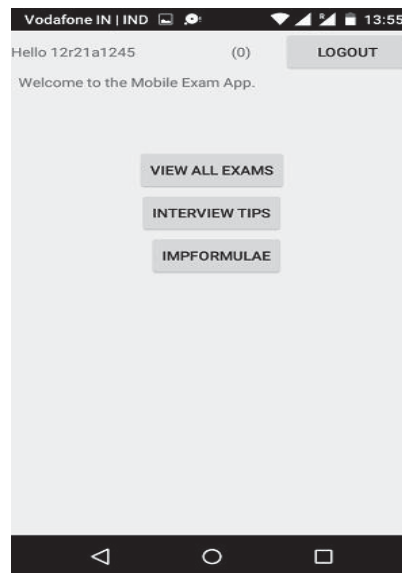


Figure (1)

### *Question:*

This module takes as input from the user based on option(single).figure(2).

*OTP (One Time Password):*

When the user tends to take the exam by selecting the exam module, system asks the OTP to the user and maps the entered key and then the user can start the exam. figure (3).

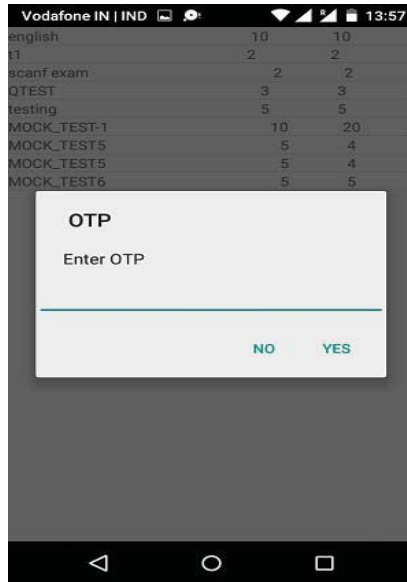


Figure (2)

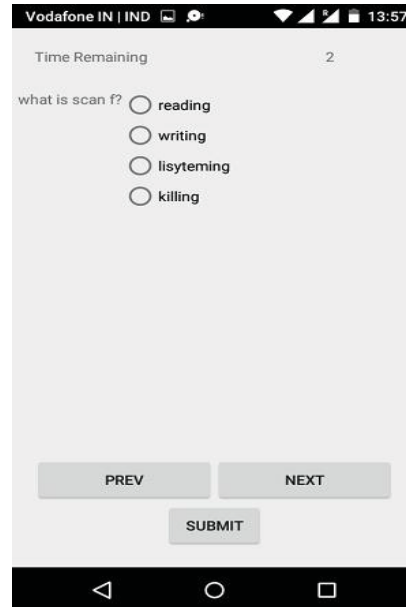


Figure (3)

## IV. CONCLUSION

Our paper is only a humble venture to satisfy the needs in an Institution. Several user friendly coding have also adopted. This paper shall prove to be a powerful package in satisfying all the requirements of the organization.

Here by the proposed system is helpful for the students as well as the mentors in educational system, this could bring the bench mark changes in the society my maximizing the utilization of application in large extent.

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