

Design and Implementation of E-Exam Using Android Platform

Prerak Jain, Mani Kumdes, Aarushi Goel, Harshita Malviya

Students

Dept. of Information Technology

SRM University, NCR Campus

ABSTRACT:

Online exams are being launched because it is advantageous for institutes and students both. With this site, institutes can register and host online exams. The purpose of online examination system fulfils the requirements of the institutes to conduct the exams online. The students and institutes just have to register on the site and enter the exam details. Students can give exams without the need of going to any exam centre. They can view the result at the same time. The objective of the site is to provide a system that could save the efforts and time of both the institutes and students. Online examination portal is a web application that establishes a network between the institute and the student. Institutes enter on the site the questions they want in the exam. The questions are displayed as a test to the eligible students. The answers marked by the students are then analysed and their score is calculated and saved. This score then can be accessed by the institute to determine the passed students or to evaluate their performance.

Now a day, handheld systems are spreading faster than any other technology in the world. The android app for online examination portal will allow the user to download the app on their mobile phone and give the exam whenever and wherever they want. It will also allow the institute to share the practice papers and assignments with the users of the app.

KEYWORDS-online examination portal, handheld systems, android, database

1. INTRODUCTION:

Online Examination System is a web application that creates a network between the institutes and the students. It provides the platform but it does not directly participate, also it is not involved in any tests conducted. Questions are posted not by the site, but administrator of the site. The administrator of the site keeps an eye on the overall functioning of the system. The examiner will evaluate answers, through automatic process and the results will be made available in the web site itself.

An android platform is also introduced with this website to give exams on the handheld devices. Students and institutes can easily access the website on their mobile phones and complete tasks whenever required. The administrator privileges are also assigned to this android system and the administrator can update new questions without a need of workstation or system.

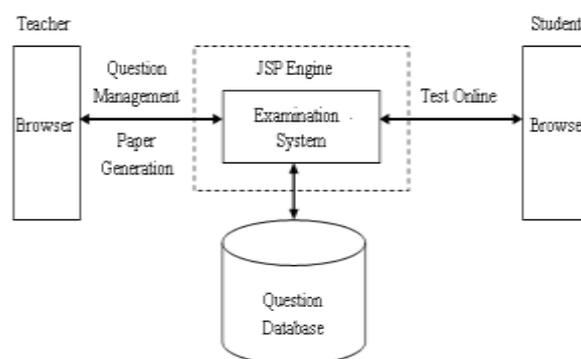


Figure 1- architecture of online examination system

2. SOFTWARE DEVELOPMENT METHODOLOGY:

In the project, waterfall model is used. This model contains 6 phases:

1. FEASIBILITY STUDY:

it involves the analysis of the problem and collection of the relevant information relating to the product.

2. REQUIREMENT ANALYSIS AND SPECIFICATION:

The goal of this phase is to understand the requirements of the customer and to document them properly.(SRS)

3. DESIGN:

The goal of this phase is to convert the requirements into a structure that is suitable for implementation in some programming language.

4. IMPLEMENTATION AND UNIT TESTING:

During implementation phase the design is implemented. Initially small modules are tested extracted from the software product.

5. INTEGRATION AND SYSTEM TESTING:

In this all the modules are integrated and then tested altogether.

6. OPERATION AND MAINTENANCE:

Release of software inaugurates the life cycle phase of the operation.

The phases always occur in this order and do not overlap.

3. SCOPE:

1. Can be used anywhere anytime as it is a web based application.
2. This website with android app takes care of all the aspects of collecting information of client or examiner and fulfils the result.
3. To allow faculty to create questions.
4. This system helps the operator, the administrator and the user to use the system.
5. This can be used in educational institutions as well as in corporate world.
6. No restriction that the examiner has to be present and the candidate can take the test on its own.

4. FEATURES:

1. It saves time as it allows multiple students to give their exam at the same time and displays the result immediately as the test gets over.
2. It will reduce paper wastage.
3. System will check responses given by the students automatically and immediately.
4. Question papers are automatically generated by the server.
5. Administrator has administrative power to create, modify and delete the exam.
6. User can log in with a specific id and give test and can see the result as well.
7. It will reduce the work of accessing the answers given by the candidates.
8. The android app will help share the images of the questions and the practice papers created by the administrator.
9. Questions can include diagrams, graphical representations etc.
10. The online examination system has a password based authentication.
11. Students and faculty details are stored in the database.

4. ANDROID PLATFORM:

Android is designed primarily for **touch screen** devices such as **smartphones** and **tablets**. The android application "Online Exam" focuses on the administrative privileges and exams conducted for the students. The admin can easily set up questions through this android application on his smart phone. This application has all the features as that in the website.

6. CONCLUSION:

This paper focuses on developing an online examination system along with the android application in saving the time both for institute and student in conducting exams. The administrator can also fulfil all

the demands and updated question banks on a handheld system providing hand to hand services to the customer. The administrators do not have to search for any workstation and fulfil demands anywhere on the android application installed on the mobile device or handheld device.

7. REFERENCES:

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