QUICK RESPONSE TEST

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ABSTRACT

In this paper, we present first experiences withthe use of a lightweight, media-supporting quiz application for mobile devices. The idea is to use the students' own smartphones as devices and provide a quiz administration module which is integrated into the existing collage e-learning platform. For establishing the link between the devices and the platform we use dynamically generated Quick Response (QR) codes. The quiz is implemented as a mobile application. We evaluate our approach with respect to usability, limitations of the computers, the QR code, and the impact on the collage network infrastructure. Furthermore, we discuss the usefulness and usability of the quiz tool on the base of students' evaluations and our experienceswhile giving online tests.

The work of the use of QR code recommends a setup of an automated examination system to process, exams, marks, score, grade and report on these assessments. Although the system has the potential to make the questions paper easily available to students using the QR code also it is handy for the students to give the answers to the questions which is time saving for teacher as well as students and also checking is error free. Automated exam process using QR code technology simplifies the conduction of examination by direct access of questions to the Exam-Taker directly on his handset and automating the write process ranging from validating the answer to providing the result of the exam.

Keyword: *- Mobile learning, e-learning, smartphone, survey,quiz, student feedback.*

1.Introduction

At our collage, we have developed alightweight system that enables lecturers to ask ad-hoc questions electronically to all students in a very quick and spontaneous way. It is possible for the teacher to use multiple choice questions, and the system is easy to use by both lecturers and students.Our idea is to exploit the proliferation ofsmartphones and laptops among students and to implement the *Mobile Quiz Application* as an extension of our already existing e-learning management system.Most students own a smartphone or another mobile web-enabled device like a notebook or a tablet. These devices have built in Wi-Fi access and a Web browser, and thus have the ability to be

used as voting devices.The quiz appears as a mobile application on the students' devices and needs no additiona lsoftware installation or platform login. To start the quiz, students' should fill the login form on mobile application. With the start of a quiz round, a QR code 3shown on the projection screen in front of the students. The students can participate in the quiz by scanning the QR code with a barcode reader(which is already present in mobile application). After the quiz is finished, theaggregatedresults are displayed on the projection screen, and the lecturer can discuss them with the students.

1.1 EXISTING SYSTEM:

The first problem is that there are loads of hard copied documents being generated. This brings us to the age-old discussion of keeping information in the form databases versus keeping the same on sheets of paper. Also when we give such online exam, the computers were use may not work properly ,because of this issue following problem occure.

DRAWBACKS OF EXISTING SYSTEM:

i. Lack of space –computers consume more space than mobile phones at a time only some students can give test(equal to numbers of computer available).

ii. hardware and software failure –Maintenance of the system is also very difficult and takes lot of time.

PROPOSED SYSTEM:This mobile Application provides facility to conduct online examination. It saves time as it allows number of students to give the exam at a time and displays the results as the test gets over, so no need to wait for theresult. It is automatically generated by the server. Administrator has a privilege to create, modify and delete the test papers and its particular questions. User can register, login and give the test with his specific id, and can see the results as well.

1.2 FEATURES OF PROPOSED SYSTEM:

FUNCTIONAL CAPABILITIES:

The ultimate aim of this project is to help the quiz analysis and facilitate the faculties the faculties for easy evaluation of the students and generation of the automatic score cards.

The system shall display the set of questions with certain rules. It also displays the category for which the students wish to answer.

Once the student has completed choosing the category starts answering the questions. The mark is given and report is generated based on the correct answers.

PERFORMANCE LEVEL: The scope of this project gives immense opportunity for the students to know their levels in quiz. It provides effective software so as to help the students as well as the evaluators who are involved in evaluating the student's performance.

DATA STRUCTURES: The data in this project are maintained in the tabular form using MYSQL in the form of database. It provides easy access to the user. Easy category questions are maintained in the database which provides easy for the user to access and choose the category.

1.2.1 SAFETY:

1. No data loss occurs in the quiz system It is very much protected in such a way that it gives permission to the students to access only when the username   and password is correct.The results are produced electronically so that nobody is prone to mistakes.

1.2.2 RELIABILITY: We assure that the project is completely authenticated in order to enhance security and corruptions of database as well as the software. The person is given access only if he/she has a valid username and password.

1.2.3. QUALITY:

The project is developed with the help of visual basic 6.0 software which meets the requirement of the user, the project is checked whether the phases individually have a served its purpose.

2. METHODOLOGY:

In this system, we use client-server architecture. The server is handle by administrator that is teacher as shown in figure and client is nothing but students who use mobile application. The mobile application is a android application , required minimum of 2 mega pixel camera for scanning QR code. The QR code is main thing that we use.

2.1MOBILE CLIENT(module1)

1)Student should first register on mobile application.

2)For registration, ID of student (already provided by Institute) , student year of studding and password(created by user) required.

3)After entering all required details, data of student going to database and check whether student are authorize or not.

4)After successful logging, user see two tabs one is schedule and second is start test.

5)In scheduling tag, student can see upcoming online exam time table and In start test tag, student can start test. But before starting test student have to scan QR code. Test is on objective based .

6)During test, already stated timer is use. So that, student should complete test within that time.

7)After successful completion of Test, result of test shown to student as well as to admin immediately. In the side of student consist of android phone contain QR Code Reader.

2.2EXAM SERVER(module2)

1)On exam server, administrator can Add Questions, Conduct Test, Set Timer, Generate QR code, Generate Result of Test, Manage Student Database ,etc.
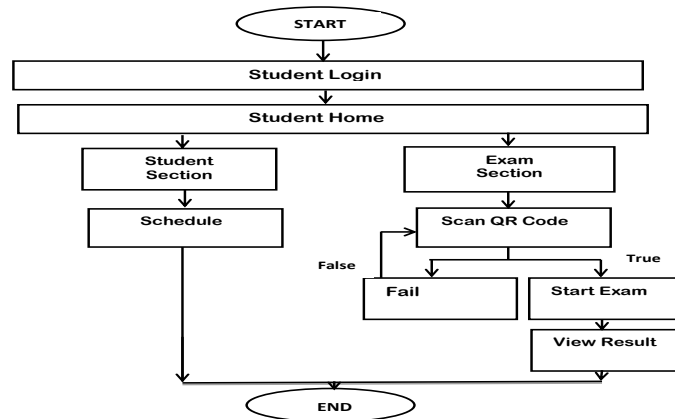
2.3 User Module

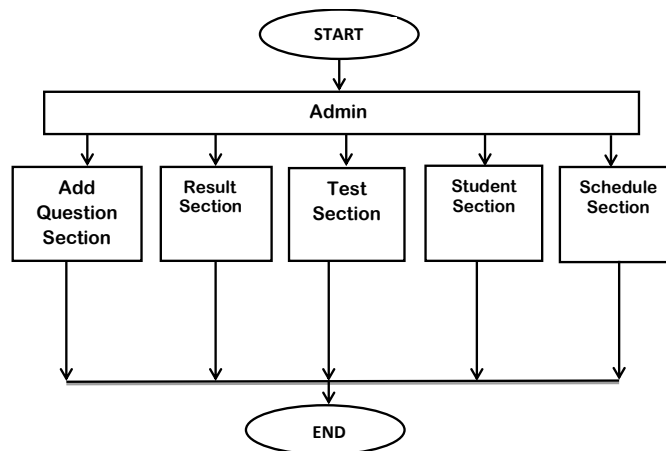**Fig :** User Module

2.4 Admin Module

Fig : Admin Module

3.Procedure to give the test

In this procedure we have explained in detail the process of how to give the test

3.1 Registration form

Through this registration form users can register themselves by filling some information such as name, email, phone number and password.

Fig: Registration form

3.2 Logging form

Through this loggin form users can loggin into our system by filling information such as email and passwrd which they have entered earlier in the registraion form.

Fig : Loggin form

3.3 Scanning QR code

In this, after filling the registration form and loggin form you will be successfully loggin to give the test and before giving the test you will have to scan the QR code of that particular subject which will be display on the wall.

Fig:process of scanning QR code

3.4 Admin Panel

Fig: Admin panel

4. CONCLUSIONS

The work of the use of QR code recommends a set up of an automated examination system to process ,exams, marks,score,grade and report on these assessments. Although the system has the potential to make the questions paper easily available to students using the QR code also it is handy for the students to give the answers to the questions which is time saving for teacher as well as students and also checking is error free. Automated exam process using QR code technology simplifies the conduction of examination by direct acess of questions to the Exam-Taker directly on his handset and automating the write process ranging from validating the answer to providing the result of the exam.

5. ACKNOWLEDGEMENT

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