Digital Examination through Web Services

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Abstract - Digital examination through web services project is a web portal that is developed or implemented using ASP.Net and Database. It is helpful for the learners to practice different mock examinations from this site. In the present generation number of the entrance examinations for higher education's like EAMCET, PGECET, GRE, GATE, government examinations like SSC CHSL, CGL, Bank job examinations, etc. are conducted through the online system. It will helpful for learners to practice different mock examinations from this website. Though there were already online existing examinations, no other service is providing the functionality of re-examination at the time of practice and there is no opportunity of logging out at the middle of the exam and re-starting from that particular question whenever logged in. This Digital Examination through Web Services provides these additional services and generates the report analysis of the user at every attempt. By this, it is providing the user to overcome their mistakes and get domain knowledge effectively. The Digital Examination service has two modules. They are the Admin and the Users. Admin can create an exam, prepare questions, and manage users. Each exam has a subject name and the system allows adding the questions of different types for exams by the admin. It also allows setting many exams. Here Admin could change the user details. User can take the exam and can track exams he has taken. While taking the exam, one question is to be displayed at once. There is no previous button. During exam progress, it displays the number of questions completed and the number of questions remained. Service allows the user to continue from the same question later if the user stops in the middle. Thus, it helps the students to ought to register with the application, choose interesting courses, and participate in the test digitally.

Keywords- Digital examination, re-exam, domain knowledge, system practice, time-consuming, report analysis

I.INTRODUCTION

Digital examination through web services is a service provided to be used globally such that anyone can easily make access to it digitally either through smart phones, tabs, laptops or any other online supported digital systems. This digital provided service can help many learners to practice as many as tests they wish. It is helpful to crack several competitive examinations. This can be utilized in any scenario such as at schools, the pupil can take the test, make practices; at institutes of coaching, the learners could take mock tests of different number sets of questions; even at offices employees could take written tests digitally to get a job, etc.

This Digital Examination through Web Services not only helpful to the users' end, but also for those who conduct the tests, compose the questions, upload some set of questions that get stored in the database. This would make their work too easier as they need not make some copies of the same set of questions, need not make valuations as everything is provided under this service.

II. AIM AND SCOPE

The main aim of digital examination through web services is to test the subject knowledge of a particular learner/user/employee on any particular technology. As the manual procedure is not an only more time-consuming process but also produces a lot of stress to the creators/teachers/faculty to compose questions, make copies, allot slots for exam and evaluate every paper, it is the perfect solution in this digital world. Learners/users/employees could grasp the opportunity to stop the test and continue from the same question, takes re-exam and get a result immediately. The scope of digital examination through web services is accessed globally as it is a web service, designed using the technologies of Asp.NET and Database.

III. EXISTING SYSTEMS

We are aware that there are many numbers of examinations that are available through the web, providing an opportunity to the doers a system practice environment. Even though the reason behind the outcome of this DIGITAL EXAMINATION THROUGH WEB SERVICEis it is having a special feature functionality of "Re-Exam". This is, whenever the learner takes a practice

test, feels dissatisfied seeing the result, he could take the exam once again. This helps the user to practice more and more with interest. Not only at the scenario of practice even in the real-time environment, we see many of the people get disturbed with network issues and sometimes because of some personally made mistakes they get logged out from the service. In such types of scenarios, they could again login to the same page and continue from the same question. These are featured got added up in this digital examination through web service.

IV. SYSTEM ANALYSIS

Digital examination through web services is built on visual studio 2015.asp.net is used as front end whereas MySQL database is used as backend. Here for validations, we made use of jQuery parsley. It can be accessed globally.

1. Hardware Requirements:
- Processor   : Pentium 3
- Speed   : 1.1 GHz
- RAM   : 256 MB (min)
- Hard Disk   : 20 GB (min)

2. Software Requirements:
- Operating System   : Windows XP
- Front End   : Asp.Net
- Back End   : MySQL
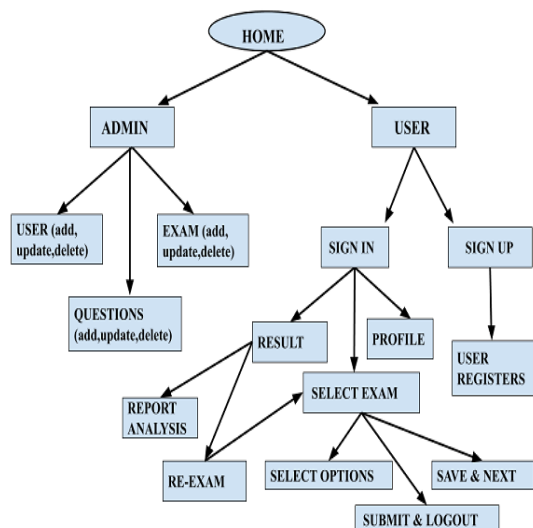- Database Connectivity: JDBC

V. PROJECT DESIGN

Fig. 1System design of Digital Examination.

VI. PROJECT ANALYSIS

Digital Examination through Web Services has two modules. They are The Admin and The Users.

1. Admin
Admin performs the functionalities of Add, Update and Delete among the users, exams or the questions. Admin could create, edit, update and delete the exams and questions. Also, admin has access to manage users, but not allowed to make changes in result analysis.

2. User
The User has two sub-modules "Sign Up" or "Sign In". If the user is a new person, then the user needs to get registered using the Sign Up module. In case of an existing user directly gets a login and has the functionalities of choosing to take an Exam, see Result or make changes in Profile.

2.1 Exam- When the user selects "Exam", he gets a display of questions, one question at a page, no option for the previous button, consists of only options to select, save and logout. Unless and until a question is selected user can't go to the next question. If the exam is stopped the user can proceed with the same question whenever logs in.

2.2 Result- User could make an analysis of results at every report. It shows either the user passes or fails. Besides, it has the module of RE-EXAM. Users can take the test once again, and then the page navigates to EXAM. A separate report is maintained for student results at every particular attempt.

2.3 Profile- At settings, he could change only his first name and last name. No more modifications are allowed to the user.Thus the project works out digitally with provided service. It could be accessed globally.

VII. CONCLUSION

Digital Examination through Web Services Provides the Facility Of taking tests digitally, such that it does not require to exam conductors making several of question papers, or spending much time for paper corrections. The users need not wait and get nervous for their results as the result report is automatically generated immediately after the test.With in the service, the admin actually creates, edits, updates or deletes the exam, questions in a particular exam and also the users but cannot change the result. The user makes practice by taking the test and could grasp the opportunity of Re-exam to improve knowledge powers, analyzes the result reports and finally, the user gets complete domain knowledge on any particular technology which was chosen to take a test on.

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