Web Commerce Based Online Multimedia Examination System

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Abstract: *Web has changed the entire perception of humans being fast processing of any information in terms of how, when, why, what, where they get possible promising solution to different challenging tasks. Modern computers with technology of multimedia made it several fascinating and imaginary areas to be true lyrics resolved by computers. Web commerce is the key factor for success of Trades online. This paper focus on Web commerce based online multimedia examination system.*

Key Words: *Video, Multimedia, Client, Server, Network.*

1. INTRODUCTION:

Multimedia word consists of two things: multi & media. Multi means much or many or more. Media is an intervening substance which can be transmitted or received. There are over more than 100,000 of computers   were in the use now in virtually every applications .Multimedia plays a significant role in all the applications. There are two types of multimedia as Interactive multimedia &Non interactive multimedia. The following are the requirements for doing multimedia: Memory storage devices, RAM, ROM, Floppy disks & hard disk, optical storage devices ,DVD, CD ROM players & recorders. Input devices including keyboard, trackballs, mice, touch screens, magnetic card encoders and readers, graphics, tablets,flat bed scanners, OCR devices, infrared remotes, voice recognition systems, digital cameras. The output devices with audio devices such an amplifier, speakers, monitors, video devices, projectors, printers. Modems, ISDN, cable modems. Stages of multimedia project

The following are the stages of a multimedia project
(i). Planning & costing
(ii). Designing & producing
(iii).Testing
(iv). Delivering

2. RELATED WORK:

Many of the skills are desirable for multimedia including:
    Executive producer
    Producer /project manager
    Creative director
    Art director
    Interface designer
    Game designer
    Subject matter expert
    Training specialist
    Script writer
    Animator
    Music composer
    Video producer
    Multimedia programmer
    Html coder

3. MULTIMEDIA APPLICATIONS:

Multimedia finds applications in following areas:

    Multimedia in schools
    Multimedia in business

Image processing & recognition
Film industry
Finger print identification
Full motion digital video
Electronic messaging
Document imaging
Home
Public places
Virtual reality
Medical diagnosis
Engineering fields
Chemical Synthesis
Geo physics
Mathematical applications
Microbiology
Biotechnology
Video conferencing
Video on demand
Earth quake estimation

4. PROPOSED ALGORITHM:

Step 1: Using Web-Commerce Applications students can get examination application to particular course, full filling the criteria as per requirement framed by guidelines of university

Step 2: Students can send required documents with prescribed fee over network banking

Step 3: Each student assigned with user name and password

Step 4: On the day of examination exactly at given timings student enters to exam hall and makes login process

Step 5: There will be no papers, no printed hard copy of questions papers & more interestingly there will be no invigilators. Student need not carry any pen, hall ticket, identity card etc. The multimedia system is used to find validity of student entered to exam by capturing and comparing images of students with database of student

Step 6: Exam hall contains only computers with mouse, keyboard, specialised input devices like Scribe pad which acts as paper and pen like instruments

Step 7: After making login at 10am, question paper appears on screen of computer for required course and subject.

Step 8: Students can answer by typing using keyboard and help of mouse for pointing over screen. If students cannot type fastly then they can use the paper like instrument connected to computer and can write over it using pen like instrument

Step 9: Exactly after 3 hours the keyboard locked and full answers typed in 3 hours duration will be sent to server.

Step 10: From server these answer scripts soft copy is sent to valuation systems where marks are awarded .

Step 11: After completion of evaluation the results will be sent to students mobile including the valued answer script.

Step 12: If the results are not satisfactory then again student can pay revaluation fee and apply for revaluation.

Step 13: Revaluation results sent to student mobile after revaluation

Step 14: At anhydrous point of time care is taken that no malpractice takes place by proper monitoring by our multimedia based video processing held at exam centres.

4. MERITS:

The following are some of merits of this type of examination system:

1. Saves paper which directly saves our natural balance by not destroying trees
2. Saves various types of pollution as trees are rich source in absorbing carbon dioxide and releasing oxygen
3. Fast way of valuations and announcements of results
4. Transparency is maintained as multimedia video processing monitors full process
5. No leakages of exam system security policies
6. No invigilators as we can control by multimedia
7. Coding encoding of answer booklets not needed
8. Saves transportation cost of answer booklets
9. Reduces complexities of revaluation searching process for booklets

5. DEMERITS:

Following are demerits of multimedia online exam system
1. It is of high cost
2. Performance of system depends on software controlling exam process
3. Very difficult to program as every aspects must be done automatically by system including verification of user name, password, verification of candidates by image processing, client server implementation for transmit of softcopy especially of questions papers and softcopy of answers
4. Network related problems will affect candidates.
5. Software for Monitoring work as Invigilation must be tested thoroughly before using it.

6. CONCLUSION AND FUTURE WORK:

In the future the Web commerce and multimedia technologies will definitely replace the existing system of examination there by creating another avatar of computer for exam system. Further robots can be created to do the same task without any intervention by humans. Like ATM machines, Multimedia exam system can be utilised in wide variety if applications among several universities and colleges over world wide web.

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