

Name of the Application: Online Examination System

A] Organization/Domain Knowledge:

Organization Profile:

AllTechIndia is a creative, innovative, intense, people-oriented organization. We understand the business value not only through the technology but also through the clients, experts to get the business objectives. We develop the solution to fulfill requirements of the clients. In today's unpredictable business aura, the need for responsible business practices is more important. It's our belief that business responsibilities, managerial strategies added value to our clients, employees in which we work.

Our mission is to deliver the best possible software solution to help our clients. We provide efficient and effective software development services that keep businesses one step ahead. We specialized in IT services such as Web and Desktop applications, social media marketing, android apps development, search engine optimization, bulk e-mails and SMS's.

B] Domains Used:

<https://projectdirectory.org/>

C] Acquisition of Knowledge:

Following are the requirements that are used during the development of the system:

SOFTWARE REQUIREMENTS:

Technology	: JDBC, JSP, SERVLET
Web Technologies	: HTML5, JavaScript, CSS
Web Server	: IIS7
Database	: MYSQL
Development Tool	: NETBEANS 8.02

HARDWARE REQUIREMENTS:

Hardware	: Intel i3
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RAM

: 2 GB minimum

D] New learning while developing the system:

Project development is a challenging task with many complex responsibilities. Fortunately, there are many tools available to assist with accomplishing the tasks and executing the responsibilities. So the technologies that are new during the development of system are:

HTML5 HTML5 is the next major revision of the HTML standard superseding HTML 4.01, XHTML 1.0, and XHTML 1.1. HTML5 is a standard for structuring and presenting content on the World Wide Web.

HTML5 is a cooperation between the World Wide Web Consortium (W3C) and the Web Hypertext Application Technology Working Group (WHATWG).

The new standard incorporates features like video playback and drag-and-drop that have been previously dependent on third-party browser plug-ins such as Adobe Flash, Microsoft Silverlight, and Google Gears.

New Features

- New Semantic Elements
- Forms 2.0
- Persistent Local Storage
- WebSocket
- Server-Sent Events

Servlets

Servlet technology is used to create web application (resides at server side and generates dynamic web page).

Servlet technology is robust and scalable because of java language. Before Servlet, CGI (Common Gateway Interface) scripting language was popular as a server-side programming language. But there was many disadvantages of this technology. We have discussed these disadvantages below.

There are many interfaces and classes in the servlet API such as Servlet, GenericServlet, HttpServlet, ServletRequest, ServletResponse etc.

E] System Study:

CURRENT SYSTEM:

We have study ABC College and find existing system is manual entry of up keeping of the details of the student who are registered already. And it is very difficult for each student to come to the exam centre. It is very difficult to the students from far distance to reach the exam centre. This system is required to prepare registration\application form, question paper for the students and required to print a lot of number manually. To calculate how many students registered, and verification of details of these students in a month by hand is very difficult. This requires quite a lot of time and wastage of money as it requires quite lot of manpower to do that. Another factor that takes into account that is the possibility of errors. The limitation of existing system is that it is not all personalized. It cannot be used for personal and quick reference. Even the other staff members can make quick entries if the responsible person is not present.

LIMITATIONS OF CURRENT SYSTEM:

- Time Consuming for creating question paper.
- Time to check right and wrong answers.
- Calculation of Marks.
- Human error.
- Limitation of no of student can give examination at a time.
- Require teacher to monitor exam centre.
- Student needs to visit exam centre for giving test.

PROPOSED SYSTEM:

The modern computerized system is developed with the aim to overcome the drawbacks of existing manual system. We have study manual examination system of ABC College and identify possible automation. The proposed system has got many advantages. People from different parts of the world can register very easily. The new system is more personalized. It is made in such a manner that all the new users can understand all the options in it very easily. It is made in a quick and easy referential manner. Access to all important matters are not always locked and can be

opened easily at the time of urgency. The advantages of proposed system are that security is maintained in the new system. Securities for all important data are maintained confidentially. As it is easily understandable and user friendly, quick entries can be made in this system

F] Modules in systems:

There are two modules in the system:

1. Admin Module
2. Student Module
3. Result Module

G] Overall features of the current system:

- Complete Automation, no manual intervention in whole process of examination.
- No geographical boundary.
- Student can give examination from anywhere of the world by 24X7.
- 100% accuracy in result calculation.
- Randomization of question set.
- Security and confidentiality
- Accessibility and Flexibility
- Cost saving
- Time saving