''Online Examination Portal of aptitute for students''

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Abstract :
Online aptitude examination system is a web based application for technical evaluation online aptitude examination system not only replace paper work about also release the workload of equality. It fulfils the requirement of the institute to conduct the exams. online student can give exams without the needs of going to any Physical Destination they can view the result at the same time .

Key Words - PHP , examination systems, database, web server.

1. INTRODUCTION :

1.1 Introduction

The Online Examination System is a technology-driven solution that simplifies examination activities such as defining exam patterns with question banks, setting exam timers, including both objective and subjective question sections, and conducting exams on computers or mobile devices in a paperless manner. It is a cost-effective and scalable method to convert traditional pen-and-paper exams to an online format. Candidates can take exams using any desktop, laptop, or mobile device with a browser, and results for objective questions can be generated instantly.

1.2Existing System

The entire process of assigning tests and evaluating scores was done manually before the software was installed, which involved checking and distributing the test papers. This manual method was time-consuming and inefficient. The current system requires more invigilators to administer exams to a large number of candidates, but invigilators are not needed for online examinations. Additionally, manual result processing takes a significant amount of time.

1.2 Need

The need of the Online Examination System building as mentioned below:
1. Scalability of the examination system
2 .To enhance the accessibility of the exams
3.Time and Cost Efficiency
4.To Secure the Examination and to maintain Integrity
5.Real-time Analytics and Performance Tracking
6.To Create Exam a Flexible and Adaptable

1.4. Proposed Work

This application is used to conduct online examination. The students can sit at individual terminals and login to write the exam in the given duration.The questions have to be given to the students. This application will
perform correction, display the result immediately and also store it in database. This application provides the administrator with a facility to add new exams. This application provides the Instructor add questions to the exam, modify questions in the exam in a particular exam.This application takes care of authentication of the administrator, Instructor as well as the student.

2 . THEORETICAL BACKGROUND :

2.1 Language Description

2.1.1 HTML
HTML, or Hyper Text Markup Language, comprises a set of markup symbols or codes inserted into a file intended for display on the Internet. These markup instructions guide web browsers on how to present a web page's content, including text and images.

2.1.2 CSS
CSS, which stands for Cascading Style Sheets, is the language used to describe the presentation of web pages. It includes instructions for defining colors, layout, fonts, and other stylistic elements, thereby enhancing the presentation of web pages for users.

2.2 Software Description

2.2.1 VS Code
Visual Studio Code, commonly known as VS Code, is a free open-source text editor developed by Microsoft. It is compatible with Windows, Linux, and macOS operating systems. Despite its lightweight nature, VS Code boasts powerful features that have contributed to its popularity as one of the most widely used development environment tools in recent times.

2.2.2 MySQL
MySQL stands as the world's most popular open-source database. According to DBEngines, it holds the second position in popularity, following Oracle Database. MySQL powers numerous widely accessed applications, including Facebook, Twitter, Netflix, Uber, Airbnb, Shopify, and Booking.com.

3. SYSTEM DESIGN :
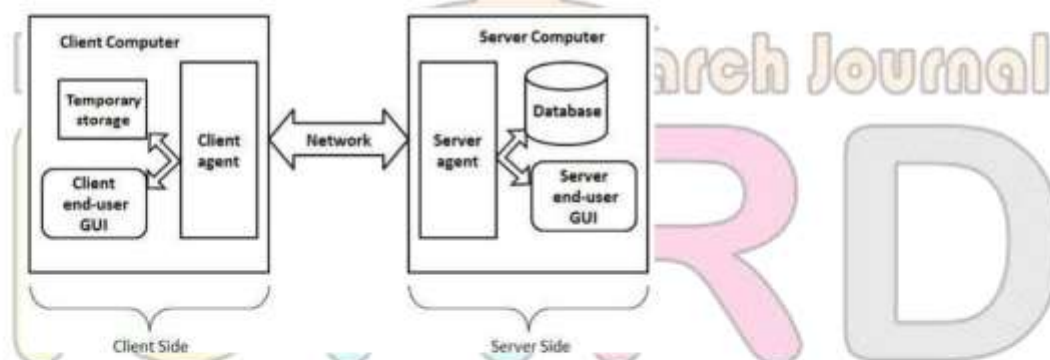
3.1 block diagram

Fig 1. Block diagram of online exam portal

Online examinations are crucial in electronic and interactive learning environments. However, in traditional educational settings, most examinations are conducted using paper-based methods. This reliance on paper-based systems stems from the lack of resumption capability in the event of power, network, or physical computer component failures. To address this challenge, the adoption and development of an online examination system are necessary.

3.2 Software Design
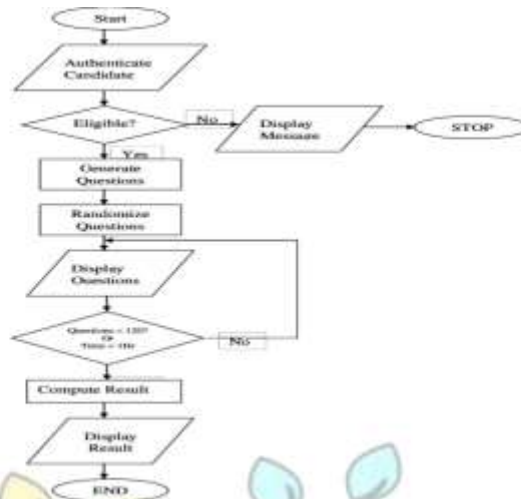Flowchart diagram

Fig 2. Flow chart diagram

This figure illustrates the process flow of the implementation of the online exam portal from start to finish. Various elements such as inputs, decisions, and outputs are depicted in pictorial form. In the diagram, ellipses represent inputs and outputs, parallelograms indicate displaying results, rectangles represent processes, diamonds signify decisions, and arrows indicate the flow of the process.

3.3 SYSTEM IMPLEMENTATION

1. creating and Managing Questions
2. Defining the Exam Type and Creating the Test
3. Adding and Managing User
4. Publish the test to appear for the examination
5. Analying and Reporting Test Result
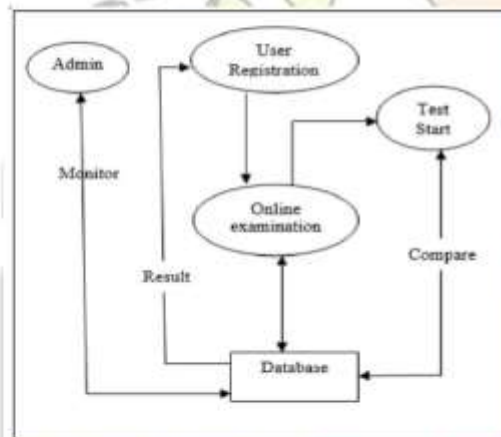
Figure.3 System Architecture of online Exam Portal

4 . SYSTEM SPECIFICATION :

4.1 Hardware Requirements (Minimum):

Minimum RAM: 2GB
Minimum Hard Disk: 500-900 MB
Processor: Intel Core i3 or above

4.2 Software Requirements (Minimum):

Operating System: Supported for both Linux and Windows users
Front End: HTML, CSS, JavaScript
Back End: Java, C
Graphical User Interface (GUI) toolkit

5 . IMPLEMENTATION AND RESULT :

An adequate and satisfactory project plan for a new website to be exhibited, is measured in series of tasks, a budget, a timeline, and a list of needed resources and materials. Taking the suitable and appropriate time to create a brief project plan produces a structure within which one can work ceaselessly and can achieve the goal on the desired timeline with yielding results.

1. *User Registration*: A user must first register before logging into the system and opting to take the exam.

Fig 4. User registration screen

2. **User Login:** Registered users will be able to log into the system with valid credentials.

Fig 5. User login screen

3. *Welcome-Page:* Registered users will be able to log into the system successfully, see the welcome page on the screen, and start the examination.

Fig 5. User joining test screen

4. Online Examination: Candidates will be able to log into the system successfully and start the examination.
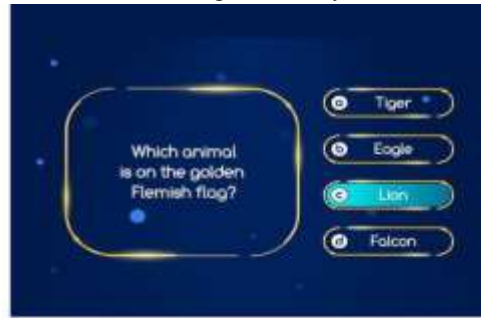

Fig 5. exam question screen

5. Successful completion of Exam: Candidates will be able to complete the exam successfully, view their results, and log off from the system.
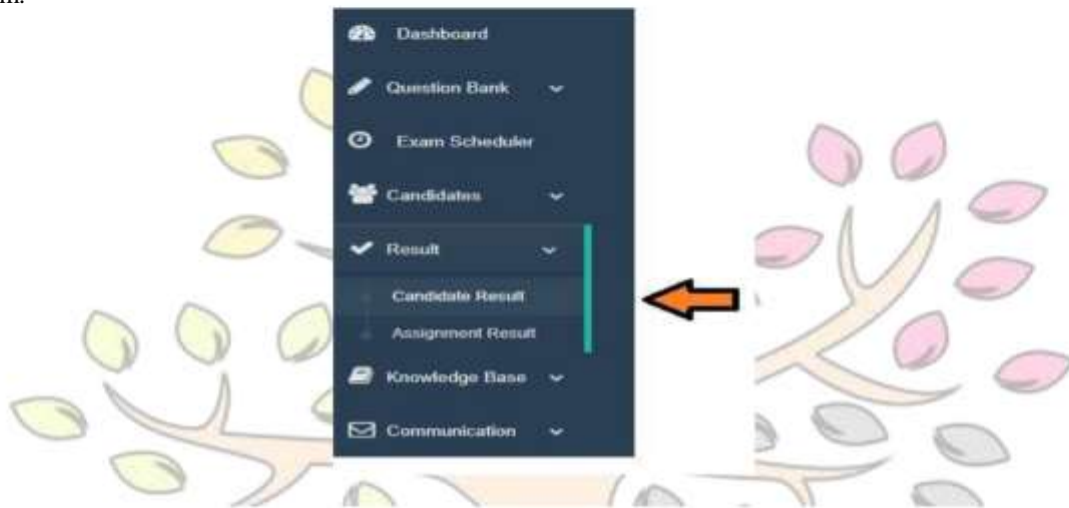

Fig 5. User result screen

6 . ACKNOWLEDGMENT :

7.CONCLUSION

The Online Examination System (OLES) is a web application designed to minimize traditional pen-and-paper examinations by converting all forms of documentation to a digital format. This system simplifies the process of obtaining data and information, ensuring accuracy and security. Even users with limited computer knowledge can easily access and use the system. Additionally, OLES provides detailed results as needed.

8. REFERENCES

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