



ONLINE EXAMINATION SYSTEM USING PHP, JAVASCRIPT AND MYSQL

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Abstract: The Online Examination System is web based solution for several organizations to take objective and subjective exam. The study reveals the aspect of online examination system like its accuracy, automation, security which made system being perfect. Online examination banishes the conventional technique of exam and introduces the all new method of exam without wasting papers and time. In conventional technique the enormous challenges is to preserve the data and there security, these system made all the challenges achievable. As we concern about digital India, so we can take one step forward towards digitalization by using Online Examination System. The system can smoothly float for colleges and universities, and bestow a superior examination platform.

Keyword: Online Examination System, Php, MySQL Database, authorized, automation.

1. INTRODUCTION

Online examination is flourish web-based examination over the educational world. The system erects exam with respect to its subject and category, therefore question assign to exam accordingly. The administration dashboard is solitary responsible to oversee the data within database of MYSQL and manipulate it. The systems have one more dashboard notorious as student dashboard in which register student present only to attend the available exam for them. Report of exam is published automatically, no need of examiner to check it and waste valuable time. There will be time limit assign by admin to every exam. The system's design the way that a standard individual can effortlessly adopt it. Security of system is being conserved by using the session layer present in Php. Data integrity is preserve by front- end and back-end validation of java script

2. PURPOSE OF ONLINE EXAM SYSTEM

Nowadays education means is expanding widely at worldwide level. Exam also necessitates expanding to your fingertips and it's not limited to four walls of classroom. The prime impetus to recommend the system are delineate below:

1. **Security of data-** Confidentiality of data is maintained, so there's no probability of misdeed. User id and password authentication scheme applied to secure the data. Database serves as safety locker that is accessible only by authorised individuals. Database contains all the questions and exam, no menace of divulges the exam. Questions pick from question bank and have privilege to shuffle the question in every possible order for all the examinee set.
2. **Save time-** The system accomplished all specify assessment automatically, which eventually save lot of time.
 - Generation of question paper.
 - Managing records of examinee.
 - Assessment allocating to examiner.
 - Preserving the answer.
 - Evaluation of paper.
 - Declaring result.

These assessment make system attractive for examiner and examinee.

3. **Quick result-** Student prefer online examination system because they don't want to wait too long to avail the score. At single touch on button, delivered the result to specific student.

No entail of manual evaluation, which basically saves energy and manpower that, can be channelled for better use.

4. **Accurate Analysis-** System generated report furnish more accuracy than the report churned out manually. Answers are stored in database only require to match with examinee's answer. Systems have the combination of smart algorithms for matching the answer.



III.METHODOLOGY

The layer of creating system-

A. HTML and CSS- HTML (Hyper Text Markup language) is the set of markup symbols or code inserted in a file extension (.html) intention is to display content on the web browser’s page world widely. It is the language totally based on tag. HTML defines the core standard of web page.

CSS (Cascading Style Sheet) is styling language used to portray the look and formatting of a web page introduce by markup language. It prescribed the overlaying design of system. It makes the system more attractive and presentable.

B. JavaScript- JavaScript is programming language used to define the behaviour of web page. It preserves the system from unlawful data entry. Every inserted data is firstly validating.

C. PHP- PHP is a server side scripting language i.e. its scripts are directly implement on the server. PHP is immersing with html. It can manage the-

- Contents dynamically.
- Database using query.
- Session tracking for security.

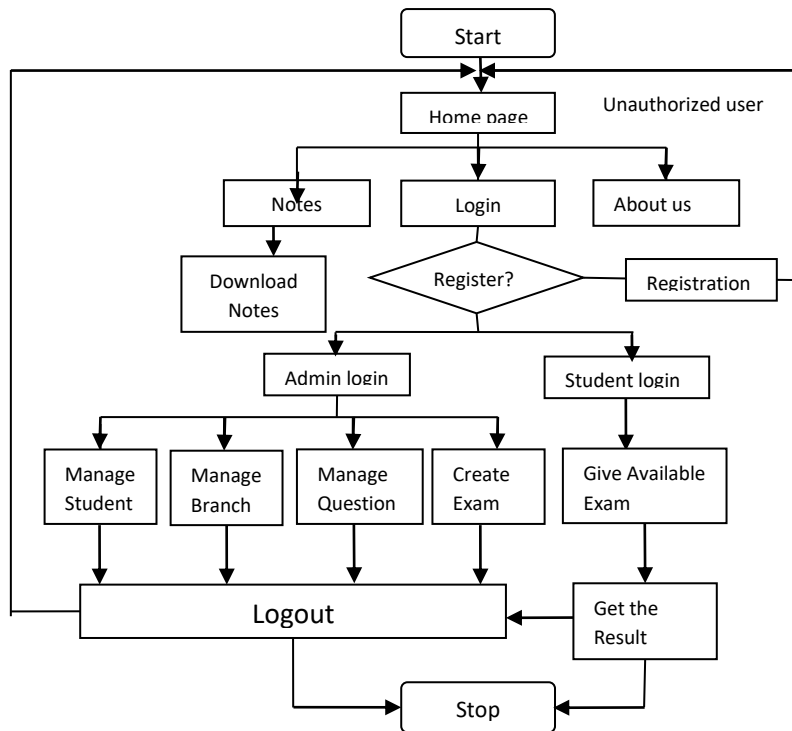


Figure: Flow Chart of Online Examination System

D. MySQL- MySQL is a structured query language. Huge collection of data can be easily maintain in the form of relational database and can be accessible using query.



Table	Action	Rows	Type	Collation	Size	Overhead
admin_detail	Browse Structure Search Insert Empty Drop	~3	InnoDB	latin1_swedish_ci	32 KiB	-
category_detail	Browse Structure Search Insert Empty Drop	~4	InnoDB	latin1_swedish_ci	32 KiB	-
exam_detail	Browse Structure Search Insert Empty Drop	~2	InnoDB	latin1_swedish_ci	16 KiB	-
exam_subject	Browse Structure Search Insert Empty Drop	~16	InnoDB	latin1_swedish_ci	16 KiB	-
options	Browse Structure Search Insert Empty Drop	~4	InnoDB	latin1_swedish_ci	16 KiB	-
question_detail	Browse Structure Search Insert Empty Drop	~28	InnoDB	latin1_swedish_ci	32 KiB	-
student_detail	Browse Structure Search Insert Empty Drop	~12	InnoDB	latin1_swedish_ci	64 KiB	-
student_result	Browse Structure Search Insert Empty Drop	~14	InnoDB	latin1_swedish_ci	16 KiB	-
subject_detail	Browse Structure Search Insert Empty Drop	~6	InnoDB	latin1_swedish_ci	16 KiB	-
9 tables	Sum	81	InnoDB	latin1_swedish_ci	248 KiB	0 B

Figure: Use-MySQL Database of Online Examination System

IV. Modules of System

Systems have two different modules that can be used by two different users.

1. Admin Module- It can be authorized person only who can manage all the database directly, and can do the following:

- i. Manage all the student records going to present in exam.
- ii. Manage the available branch efficiently.
- iii. Add the subject in particular branch.
- iv. Create lots of question branch wise and subject wise.
- v. Finally create the exam for examinee.
- vi. Also view the report card of individual student.

2. Student Module- Basically student is the examinee who can login and give the available exam for them and immediately view their performance by result.

- i. Login the system.
- ii. Present on the available exam.
- iii. View the report card.

V. SYSTEM ANALYSIS

E-R diagram – E-R diagram (Entity Relationship diagram) as its name prescribe, it represent the relationship of entity sets stored in database. ERD uses variety of symbol to represent entities and relationship like rectangle, diamond shape.

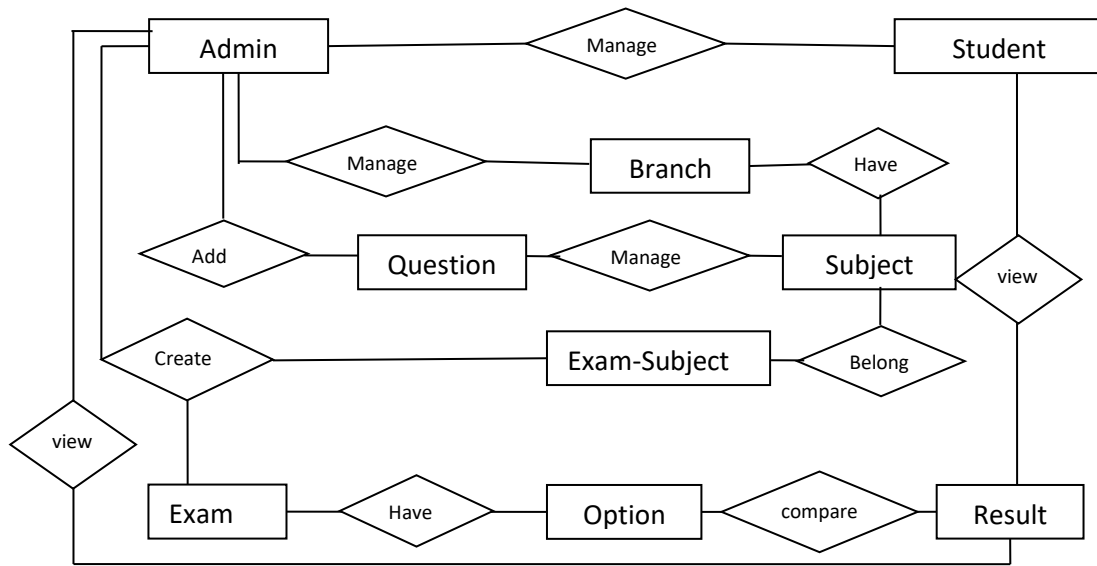


Figure: E-R Diagram of Online Examination System

Use-case diagram- Use case portrayed how an external entity can interact with the system to make it work. It expressed high level functionality of a user can handle the system. Behaviour of a live system captured by use case diagram.

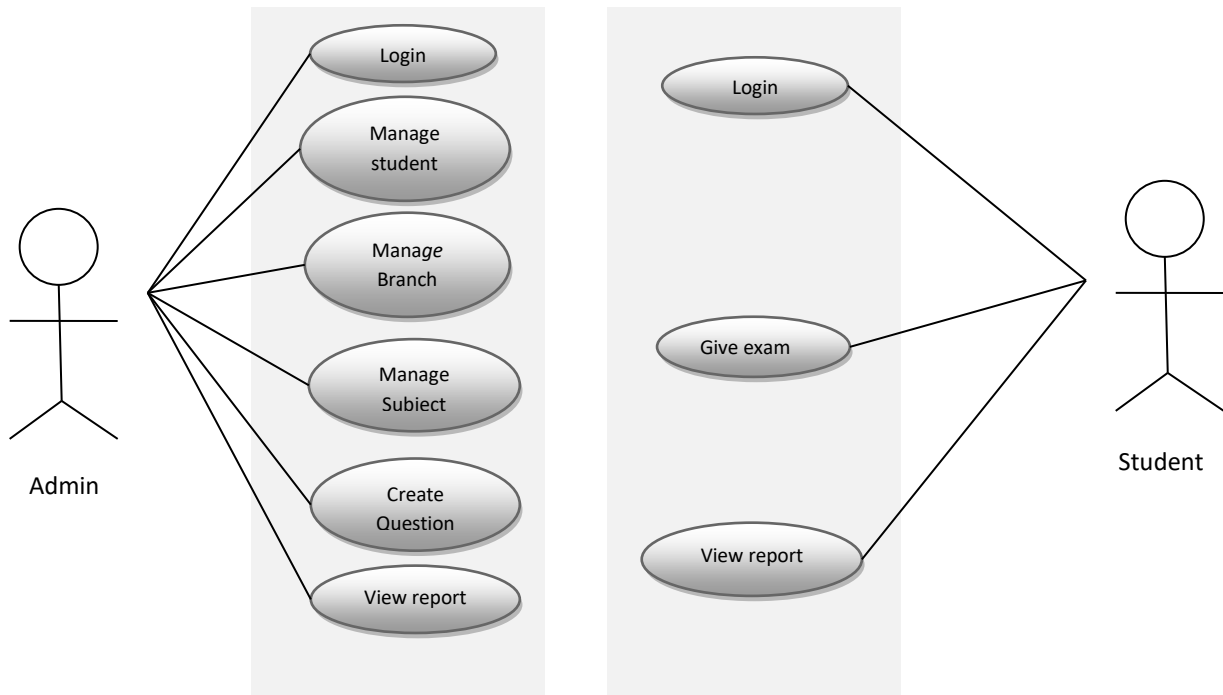


Figure: Use-Case Diagram UML of Online Examination System

VI.RESULT AND PERFORMANCE ANALYSIS

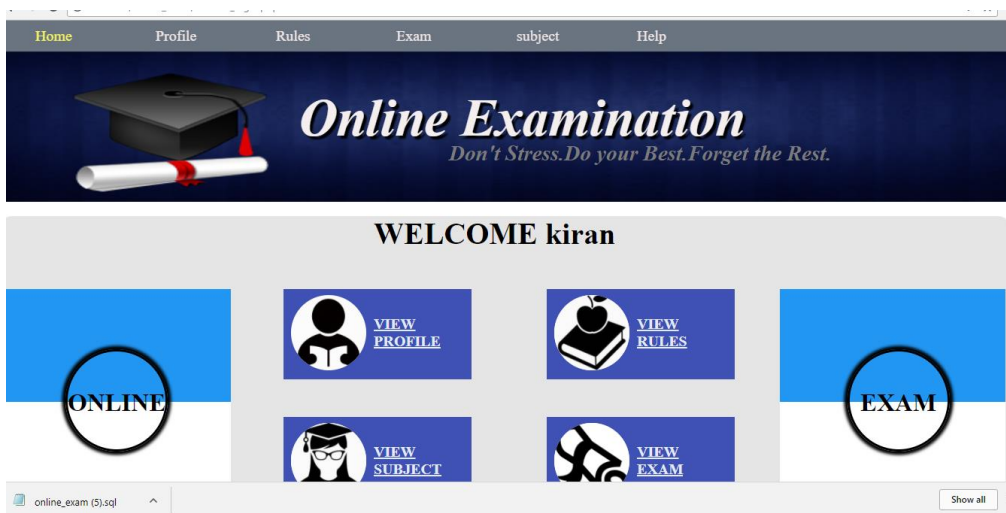
Login page – User can have specific ID and password through which they have access to login the system. This page also have link of forgot password page. Registration of new student also possible from the link given in these pages.



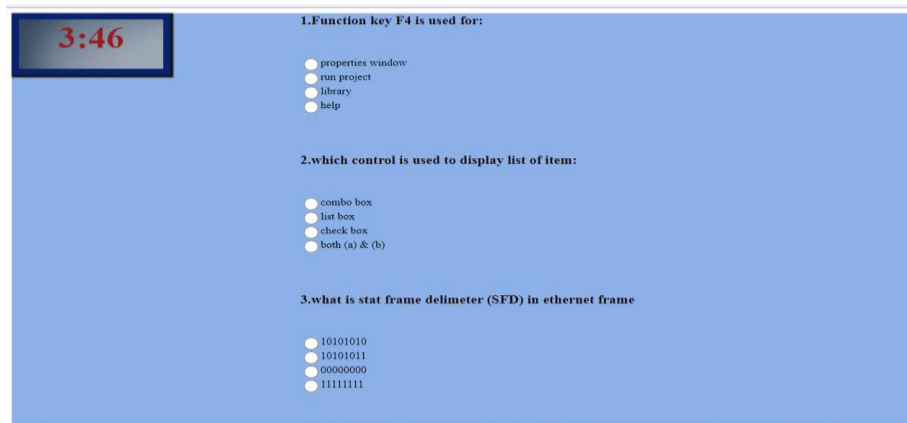
Admin module-Dashboard of admin of have all the functionality that performed by the admin.



Student module- student dashboards have functionality like give exam, view report card.



Exam page- These page contain actual exam information(set of question, time of exam) and have submit button, by clicking on these button answer of particular student got preserve in database and then view their performance.



VII. CONCLUSION

OES (Online Examination System) can be adopted by the organization and universities to bestow a flexible and timeliness platform for better exam. It grants permission to login number of student, attend the exam at a time, and also get immediate automatically generated report. Database can be managed by admin and coordinator, so no need of professional skilled person. It also escalates the skill of student as well as facility.

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BIOGRAPHY



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