



QUIZING CAMEOS

A PROJECT REPORT

Submitted By

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BONAFIDE CERTIFICATE

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Abstract

The primary goal and objective of this project is to plan and program a web application. This system must follow the best web application software engineering practices. An online quiz website was created utilizing HTML, PHP, CSS, and a SQL database system. This system is primarily utilized by two types of users: users and administrators. This site allows you to build an online quiz, and registered Examinees can access and participate in the exams. Courses, exams, exam questions, and examinees can all be added by the administrator. The examinee then logs into the site using a registered email address and a password created by the administrator. The examinee can then check how many exams are pending and how many have been completed. User can also offer feedback to admin anonymously or under their own name on this website. The Online Quiz system is based on the ClassMarker concept. This proprietary web-based Testing tool makes it simple to create secure online exams and assessments with advanced Quiz options like time restrictions, public and private Test access, quick feedback, multiple choice, and more. Through this project, administrators, instructors, and students taking an online examination can communicate with the system, allowing for more effective implementation and monitoring of various activities related to online examinations, such as conducting exams on a scheduled basis and delivering results to that specific user or student. Additionally, the administrator keeps track of the students who took the Online Examination.

Acknowledgements

At first, I want to express gratitude to the Almighty God for his endless kindness for keeping me mentally and physically fit to complete this sophisticated task. I am using this opportunity to express our gratitude to everyone who supported us throughout the project. I am thankful for their aspiring guidance, invaluable constructive criticism and friendly advice during the project work. I am sincerely grateful to them for sharing their truthful and illuminating views on a number of issues related to the project.

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Contents

Abstract	iii
Acknowledgements	iv
List of Figures	vi
Abbreviations	vii
1 Introduction	1
1.1 Purpose of the system.....	1
1.2 Problem Statement.....	2
1.3 Background Information and Motivation.....	2
1.4 Aims and Objectives.....	2
1.5 Overview Of The System.....	3
2 Literature Review	4
2.1 Overview of Existing System.....	4
2.2 Limitation of Existing System.....	4
3 Methodology and Design	5
3.1 Proposed System.....	5
3.2 Used Technology.....	6
3.3 Software Requirements.....	6
3.4 Hardware Requirements.....	6
3.5 Use Case Diagram.....	7
3.6 E-R Diagram.....	8
4 Implementation and Result	10
4.1 Implementation of Proposed Project.....	10
4.2 Developed System.....	11
4.3 Database	17
5 Limitations and Conclusions	18
5.1 Limitation.....	18
5.2 Conclusion.....	18
5.3 Suggestions for Future Work.....	19
REFERENCES	20

List of Figures

3.1	Use case Diagram for user	8
3.2	Use case Diagram for admin	8
3.3	E-R Diagram.....	9
4.1	Admin Log In.....	11
4.2	Admin Page.....	11
4.3	Add Examinee page.....	12
4.4	Add Question page.....	12
4.5	Add/Update Question Page.....	13
4.6	Students Ranking Page	13
4.7	Students Result Page	14
4.8	Students Feedback Page.....	14
4.9	User LogIn Page.....	15
4.10	User Page.....	15
4.11	During Exam Page.....	16
4.12	Examinee Result Page.....	16
4.13	Database Tables.....	17

List of Abbreviations

DFD	D ata F low D iagram
SDK	S oftware D evelopment K it
E-R	E ntity R elationship
SQL	S tructured Q uery L anguage
HTML	H yper T ext M arkup L anguage
CSS	C ascading S tyling S heet
PHP	H ypertext P reprocessor
OS	O perating S ystem

Chapter 1

INTRODUCTION

Online examinations contents providers to focus on creating effective assessment questions and focusing on exam's feedback delivery to students. The methodologies presented in this project are relevant to the aspects of the assessment process: response submission, automated grading, and post-submission feedback. Users who have registered for the platform can access the electronic information they gave and execute a variety of duties using the online educational system in order to take online exams. Users can receive an on-line exam for the course that includes multimedia content, and they can electronically respond to the exam. They are given the grade or marks obtained in their examinations when they have completed the time of their exam. Kajitori et al. [2] proposed that through this project, administrators, instructors, and students who are taking an online examination can communicate with the system, allowing for more effective implementation and monitoring of various activities of online examinations such as conducting exams on a scheduled basis and delivering results to that specific user or student. Additionally, the administrator keeps track of the students who took the Online Examination.

1.1 Purpose of the system

The online quiz site is based on the "ClassMarker" concept. Because modern companies are automated and computers follow instructions, it is necessary for humans, commodities, and computers to operate together in a modern organization. It Connect pupils to the learning material in a unique and enjoyable way. A large number of participants, instant results of an online quiz (for both the creator and the participants), a better overview, and the ability for the administrator to randomize the questions and establish a timer. All of this can be done without the use of a classroom or paper exams, which saves time and moves us one step closer to a digital future [6].

1.2 Problem Statement

In this pandemic condition, course teachers are having a lot of difficulties organizing their online quizzes. It Connect kids to your brand or instructional material in a unique and enjoyable way [3]. Taking online quizzes allows for a big number of people to participate. It might have up to 1000 participants (and possibly even more!). It makes no difference where they take the online quiz as long as they have access to the Internet. Another advantage of online quizzes is that you can get instant feedback from your participants. Not only does the inventor receive the findings, but the participant might also receive his or her own. This makes it simple for the creator to spot knowledge gaps. The participants can see what kind of area they need to work on. The quiz maker can either set a timer for the entire quiz or a timer for each question. This is doable with written quizzes, but it takes the instructor a long time. Plus, with a large number of people, it's nearly difficult to do [4].

1.3 Background Information and Motivation

This system is primarily utilized by two types of users: users and administrators. This site allows you to build an online quiz, and registered Examinees can access and participate in the exams. Courses, exams, exam questions, and examinees can all be added by the administrator. The examinee then logs into the site using a registered email address and a password created by the administrator. The examinee can then check how many exams are pending and how many have been completed. User can also offer feedback to admin anonymously or under their own name on this website.

1.4 Aims and Objectives

The goal is to allow users to take exams for free on this site, and users can also build online quizzes and participate in them. The teacher may quickly manage courses, exams, and examinees, as well as change the question. The administrator can also make changes to course, test, and examinee information. Students can sit at their own computers and check in to take the exam in the time allotted.

The students must be provided the questions. This application will solve the problem, display the result right away, and store it in a database. This application allows the administrator to add new exams to the system. This tool allows the instructor to add questions to an exam, as well as alter questions in an exam [5]. The administrator, instructor, and student are all authenticated by this application.

I determined the system was required to complete the following tasks:

1. Contain all details information about a Quiz question.
2. Have information readily available and accessed by user.
3. Maintain updated information .
4. Admin can delete new data and update existing data that will show in user side.
5. User can only see data. They cannot insert or update data.

1.5 Overview of The System

Online Quiz system has two main modules:

USER MODULE:

- 1.If the admin registered the user than user can easily login and start the quiz.
- 2.User can see how many exams are pending and how many done.
- 3.User can send the feedback to admin.

ADMIN MODULE:

Can create/delete/update exam question , courses, examinee.

- 1.Can view Result instantly
- 2.Can view the ranking of the students
through course wise result.
- 4.Can view feedback report.

Chapter 2

LITERATURE REVIEW

A literature review is a thorough summary of prior research on a particular subject. The literature review examines scholarly articles, books, and other sources that are pertinent to a specific study topic. This previous study should be enumerated, described, summarized, objectively evaluated, and clarified in the review. It should provide a theoretical foundation.

2.1 Overview of Existing System

In the current system, input is provided through a manual method. Students can use paper and ink to offer their quiz regarding the lecturers in the current system. A lot of time is wasted this way [21]. After that, a system based on taking quizzes was created. As an example, an online quiz management system and an online assessment. In the current method, time management for a quiz is difficult for a course teacher, and a classroom is also required for this unexpected test examination [7]. If a class has 50 kids, the teachers will need 50 sheets of paper. Why not change your quiz system into an online system since that everything is digitalized [22]. The current system is a manual one in which users keep books to store information such as student information, instructor information, schedule information, and feedback regarding students who completed exams on time. Maintaining historical data is quite challenging [8].

2.2 Limitation of Existing System

In the current developed system, there are few security issues and fewer functionality, such as no feedback system in some projects and no timer system during quizzes [9]. Many of them do not deliver accurate results in order for pupils to study more effectively. As a result, students' enthusiasm for using this approach is waning [10]. Some systems aren't very user-friendly [23].

Chapter 3

METHODOLOGY AND DESIGN

Methodology is "'a contextual framework' for research, a coherent and logical scheme based on views, beliefs, and values, that guides the choices researchers [or other users] make". Any description of a method for calculating a certain outcome is always a method description, never a methodology description. It's crucial to avoid using methodology as a synonym for technique or a collection of procedures [11]. The first step toward a successful project is to design it. A project design is a method of organizing ideas, materials, and processes in order to achieve a specific goal. Project managers rely on smart design to avoid mistakes and offer parameters to keep key components of the project, such as the timeline and budget, on track. The development of a system or approach for a specific circumstance is referred to as design methodology. The phrase is now most commonly used in relation to technology domains such as web design, software, and information systems design. Design technique is used in a variety of degree programs, including graphic and digital arts. The development of a system or approach for a specific circumstance is referred to as design methodology. The phrase is now most commonly used to refer to technology domains such as web design, software, and information systems design. It involves studying the methods used in your field and the theories or principles behind them, in order to develop an approach that matches your objective [12].

3.1 Proposed System

The system is divided into two parts: user and admin. The following are some of the benefits of the suggested system: Students can effortlessly deliver their quiz with this web application. Reducing the time, it takes to process and see the results. After the exam, students can provide feedback to the administrator. The UI is simple and easy to use. Reduce the amount of paper work and time spent on it.

3.2 Used Technology

The automated Online Quiz system is based on any windows environment. Any common browser will suffice to execute the system. The following tools and technologies are utilized to do this. It's also useful to consider PHP in terms of what it can accomplish for a project [13]. PHP will enable you to: Shorten the time it takes to build large websites. Create a personalized user experience for visitors based on the information we've collected. Thousands of online tool possibilities are now available. According to Garcia-Sanjuan et al. [14], "PHP is an HTML-embedded scripting language," according to PHP's official website, PHP.net. Much of its syntax is based on C, Java, and Perl, with a few PHP-specific features tossed in for good measure. The language's purpose is to make it easier for web developers to create dynamically generated pages fast." This is a decent broad definition of PHP. It does, however, contain a number of terminology that you may not be familiar with. PHP can also be thought of as a strong, behind-the-scenes scripting language that your visitors will never see [15]!

3.3 Software Requirements

- Operating System : Microsoft Windows 7,8,10,10pro/linux/macOS
- Data Base Server: SQLite
- Front-End: HTML,CSS,bootstrap and java script.
- Back-End: PHP
- Back end: SQLite Database

3.4 Hardware Requirements

- RAM 1 GB
- Hard Disk 10 GB

3.5 Use Case Diagram

A use case diagram is a dynamic or behavior diagram in UML. Actors and use cases are used to model the functioning of a system in use case diagrams. A set of tasks, services, and functions that the system must do are referred to as use cases. A "system" in this sense refers to something that is being produced or operated, such as a website. The "actors" are persons or things that perform certain functions within the system. Use case diagrams are useful for visualizing a system's functional needs, which will influence design decisions and development priorities [16]. They also assist in identifying any internal or external elements that may have an impact on the system and should be considered. From outside the system, they provide a solid high-level analysis. Use case diagrams describe how the system interacts with actors without addressing how that capability is implemented [20].

System:

Draw your system's boundaries using a rectangle that contains use cases. Place actors outside the system's boundaries.

Use Case:

Draw use cases using ovals. Label the ovals with verbs that represent the system's functions.

Actors:

Actors are the users of a system. When one system is the actor of another system, label the actor system with the actor stereotype.

Relationships:

Use a simple line to show the relationship between an actor and a use case. Use arrows labeled "uses" or "extends" to show linkages between use cases. A "uses" relationship shows that one use case is required to complete a job by another. An "extends" relationship denotes more possibilities for a certain use case [24].

Here in Figure:3.1 explain the case diagram of user site and the Figure:3.2 represent the case diagram of admin site.

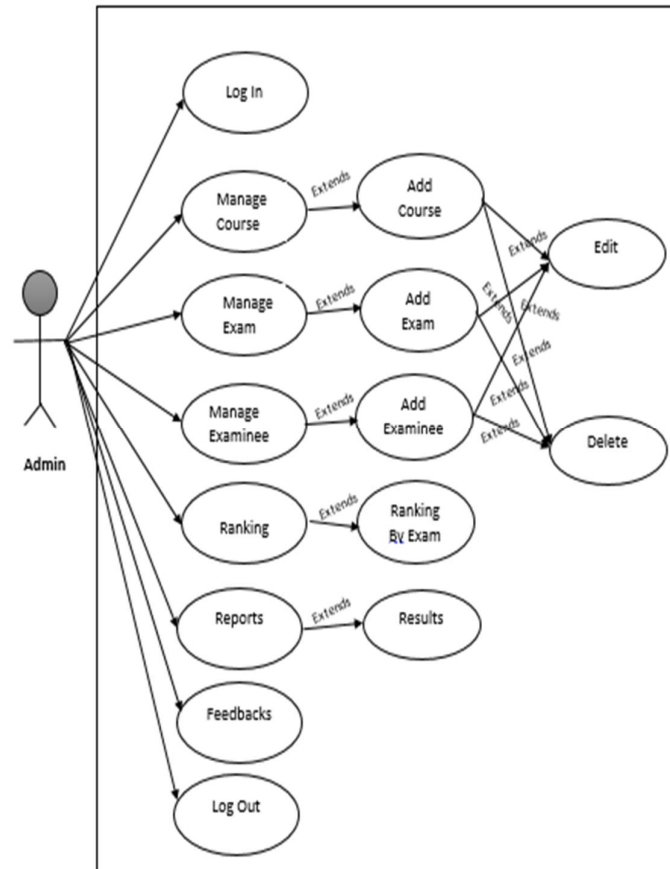
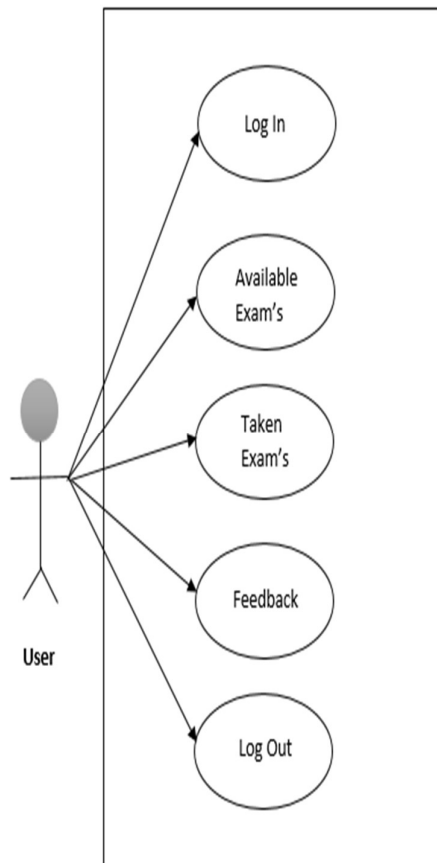


FIGURE 3.1: Use case Diagram for user

FIGURE 3.2: Use case Diagram for admin

3.6 E-R Diagram

The relationships between entity sets recorded in a database are depicted in an entity relationship diagram (ERD). An object, or a data component, is an entity in this context. A collection of similar entities is referred to as an entity set. These entities can have qualities defined by attributes [17]. An ER diagram depicts the logical structure of databases by identifying entities, their attributes, and the interactions between them [25]. ER diagrams are used to sketch out a database's design which will help to better understand for every project.

Here Figure 3.3 represent the Entity Relationship of this project.

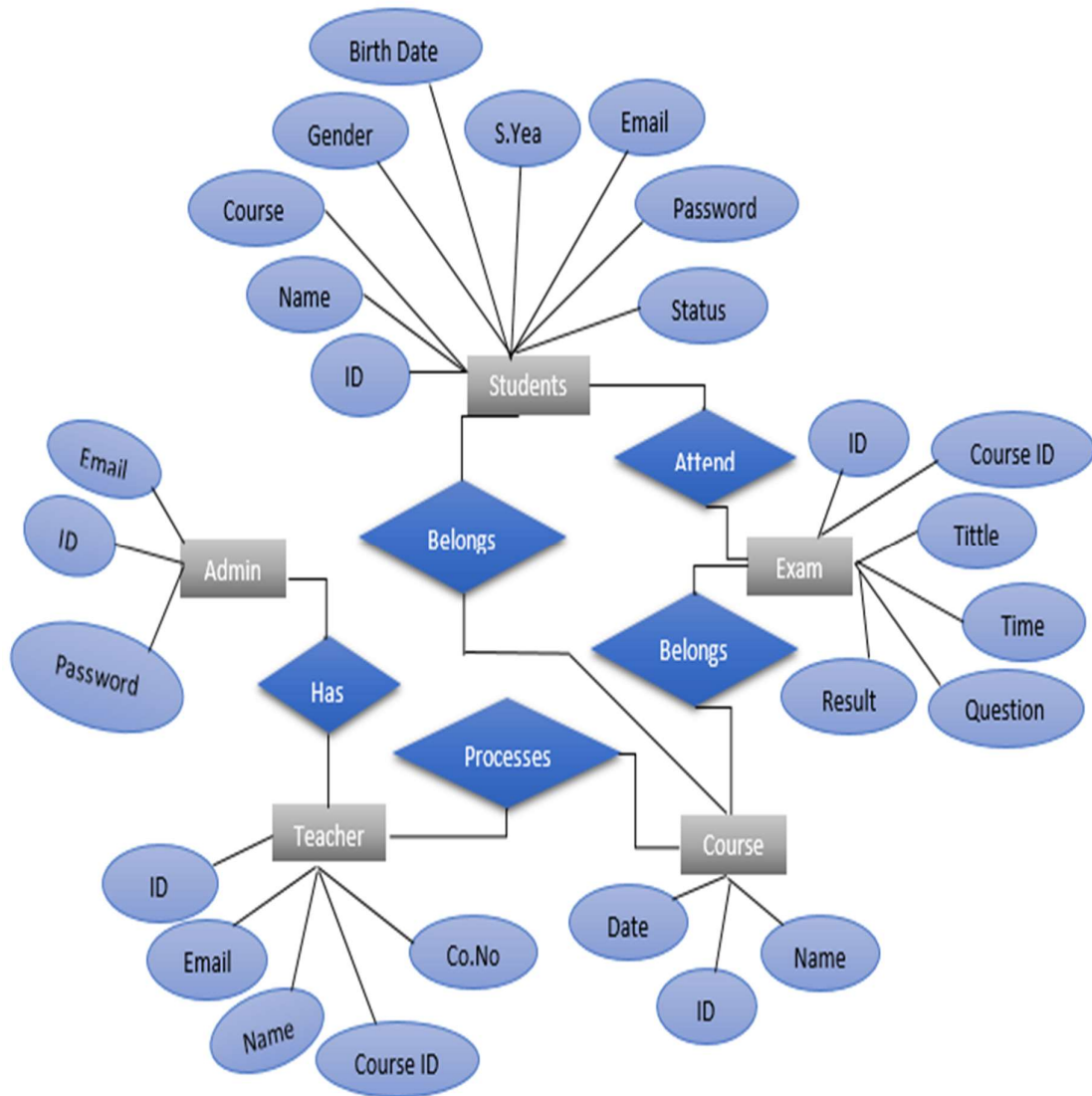


FIGURE 3.3: E-R Diagram

Chapter 4

IMPLEMENTATION AND RESULT

In computer science, an implementation is the computer programming and deployment of a technical specification or technique as a program, software component, or other computer system. For a particular specification or standard, there may be numerous implementations. Web browsers, for example, include implementations of World Wide Web Consortium-recommended specifications, while software development tools include programming language implementations. An outcome (also known as an upshot) is the qualitative or quantitative expression of the end result of a series of actions or occurrences. Advantage, disadvantage, gain, harm, loss, value, and victory are all possible outcomes. There may be a range of possible outcomes associated with an event depending on the point of view

4.1 Implementation of Proposed Project

Many implementations may exist for a given specification or standard. System implementation generally benefits from high levels of user involvement and management support. User participation in the design and operation of information systems has several positive results. This includes requirements analysis, scope analysis, customizations, systems integrations, user policies, user training and delivery. These steps are often overseen by a project manager using project management methodologies [18]. Home page is the starting page of my Website. Here SQLite database is used. There are two user modules. Admin module, User module.

4.2 Developed System

The Figure 4.1 represent the admin Login page of the website. After login admin can access the website. And Figure 4.2 represent the admin page of the website, All the functionality of this website can be accessible from this page.

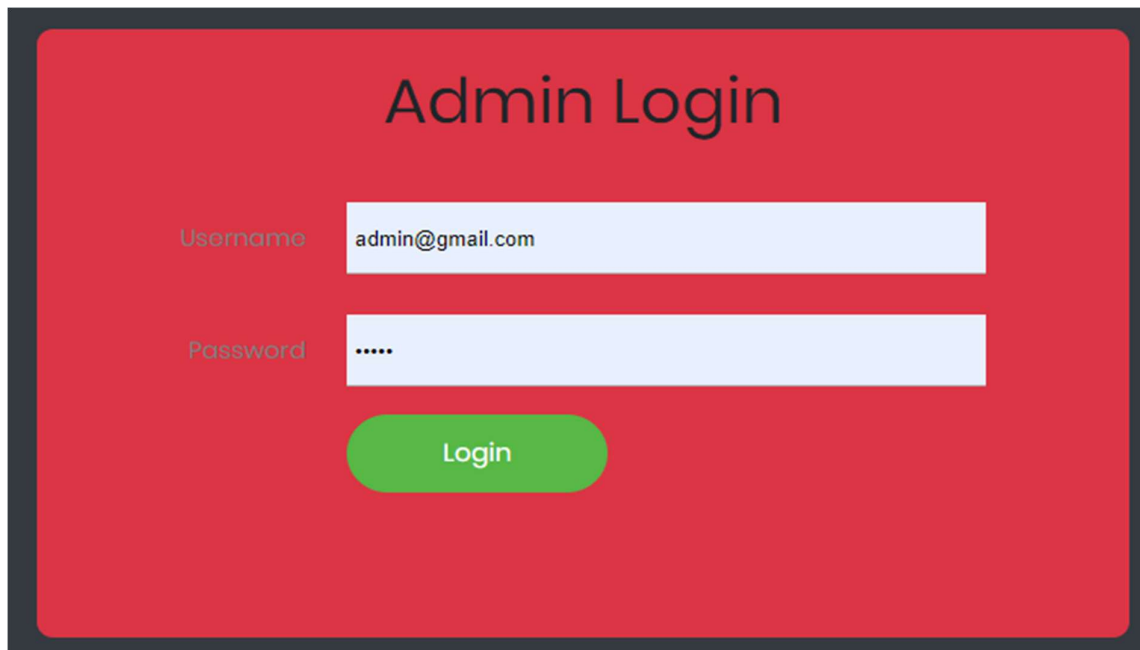


FIGURE 4.1: Admin Login

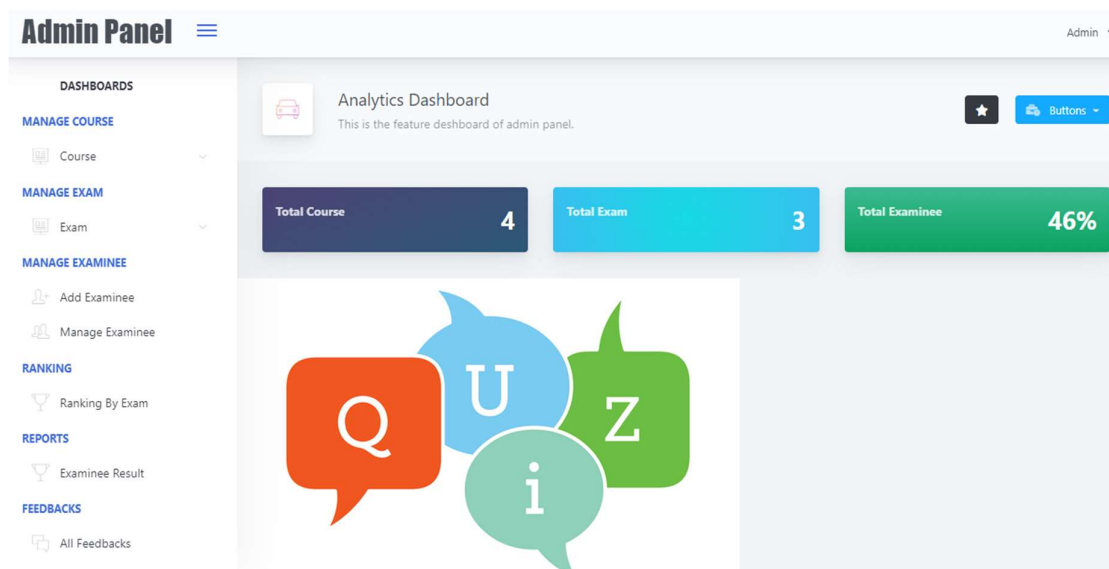


FIGURE 4.2: Admin page

The Figure 4.3 represent the add students from the site of admin panel. Admin can add question also which function is represent in Figure 4.4.

The screenshot shows the 'Admin Panel' interface with a sidebar menu. The 'Add Examinee' modal is open, displaying the following fields:

- Fullname: Input Fullname
- Birhdate: dd----yyyy
- Gender: Select gender
- Course: Select course
- Year Level: Select year level
- Email: rakib@gmail.com
- Password:

In the background, a table of examinees is visible:

	Fullname	Course	Year Level	Email	Password	status	
	Rakib Rayans						
	Titu						
	Safa						
	Helal SR						
	Rakibul						
	Shanto						

FIGURE 4.3: Add Examinee page

The screenshot shows the 'Admin Panel' interface with a sidebar menu. The 'Add Question' modal is open, displaying the following fields:

- Question: Input question
- Input word for choice's
- Choice A: Input choice A
- Choice B: Input choice B
- Choice C: Input choice C
- Choice D: Input choice D
- Correct Answer: Input correct answer

In the background, a table of questions is visible:

QUESTION'S		
11	ing the memory space at multiple places.	Update Delete
	ata Repository	
	ata Inconsistency	
	ata Mining	
	ata Redundancy	
	h of the following can be used to extract the data & information from the data se?	Update Delete
	ata redundancy	
	ata recovery tool	
	ata mining	
	oth B and C	
	ge collection of the information or data	
	sted form several different sources is	
	s _____:	Update Delete
	ata Management	
	ata Mining	

FIGURE 4.4: Add Question page

The Figure 4.5 represent the update Exam question from the site of admin panel. Admin can view students ranking which function is represent in Figure 4.6.

Admin Panel Admin

DASHBOARDS

MANAGE COURSE

Course

MANAGE EXAM

Exam

MANAGE EXAMINEE

Add Examinee

Manage Examinee

RANKING

Ranking By Exam

REPORTS

Examinee Result

FEEDBACKS

All Feedbacks

MANAGE EXAM
Add Question's for Sudden Test of DBMS

EXAM INFORMATION

Course
DBMS

Exam Title
Sudden Test of DBMS

Exam Description
Quiz is for 10 marks.

Exam Time limit
10 Minutes

Question Display limit
10

EXAM QUESTION'S 11 Add Question

occupying the memory space at multiple places.
A - Data Repository
B - Data Inconsistency
C - Data Mining
D - Data Redundancy

Update Delete

3.) Which of the following can be used to extract or filter the data & information from the data warehouse?
A - Data redundancy
B - Data recovery tool
C - Data mining
D - Both B and C

Update Delete

4.) A huge collection of the information or data accumulated form several different sources is known as _____.
A - Data Management
B - Data Mining
C - Data Warehouse

Update Delete

FIGURE 4.5: Add/Update question Page

Admin Panel Admin

DASHBOARDS

MANAGE COURSE

Course

MANAGE EXAM

Exam

MANAGE EXAMINEE

Add Examinee

Manage Examinee

RANKING

Ranking By Exam

REPORTS

Examinee Result

FEEDBACKS

All Feedbacks

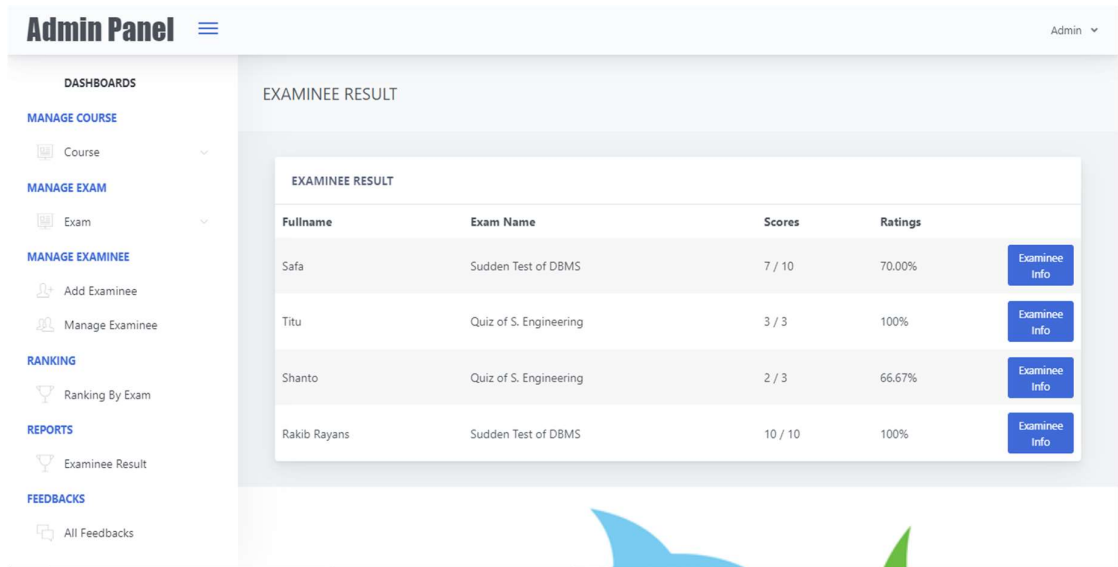
RANKING BY EXAM
Exam Name : Sudden Test of DBMS

Excellence Very Good Good Failed Not Answering

Examinee Fullname	Score / Over	Percentage
Safa	7 / 10	70%
Rakib Rayans	10 / 10	100%

FIGURE 4.6: Students Ranking Page

The Figure 4.7 represent the students result from the site of admin panel. Admin can see the feedbacks which function is represent in Figure 4.8.



Admin Panel Admin

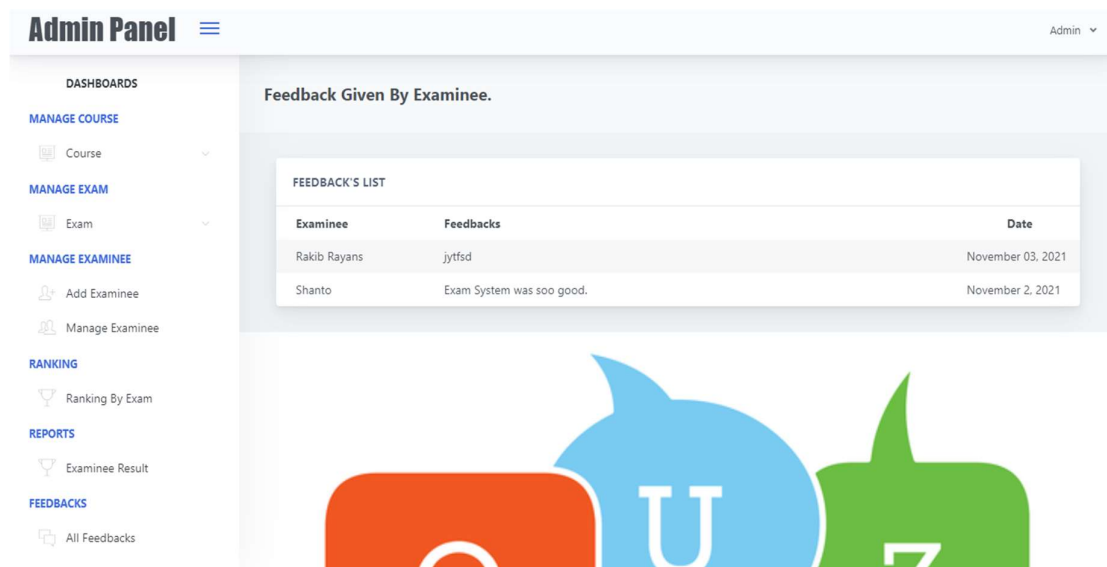
DASHBOARDS

- MANAGE COURSE
 - Course
- MANAGE EXAM
 - Exam
- MANAGE EXAMINEE
 - Add Examinee
 - Manage Examinee
- RANKING
 - Ranking By Exam
- REPORTS
 - Examinee Result
- FEEDBACKS
 - All Feedbacks

EXAMINEE RESULT

Fullname	Exam Name	Scores	Ratings	
Safa	Sudden Test of DBMS	7 / 10	70.00%	Examinee Info
Titu	Quiz of S. Engineering	3 / 3	100%	Examinee Info
Shanto	Quiz of S. Engineering	2 / 3	66.67%	Examinee Info
Rakib Rayans	Sudden Test of DBMS	10 / 10	100%	Examinee Info

FIGURE 4.7: Students Result Page



Admin Panel Admin

DASHBOARDS

- MANAGE COURSE
 - Course
- MANAGE EXAM
 - Exam
- MANAGE EXAMINEE
 - Add Examinee
 - Manage Examinee
- RANKING
 - Ranking By Exam
- REPORTS
 - Examinee Result
- FEEDBACKS
 - All Feedbacks

Feedback Given By Examinee.

Examinee	Feedbacks	Date
Rakib Rayans	jytfds	November 03, 2021
Shanto	Exam System was soo good.	November 2, 2021

FIGURE 4.8: Students Feedback Page

The Figure 4.9 represent the User Log In page from the site of user panel. Students can see this all the features from user site which is given diagram in Figure 4.10.

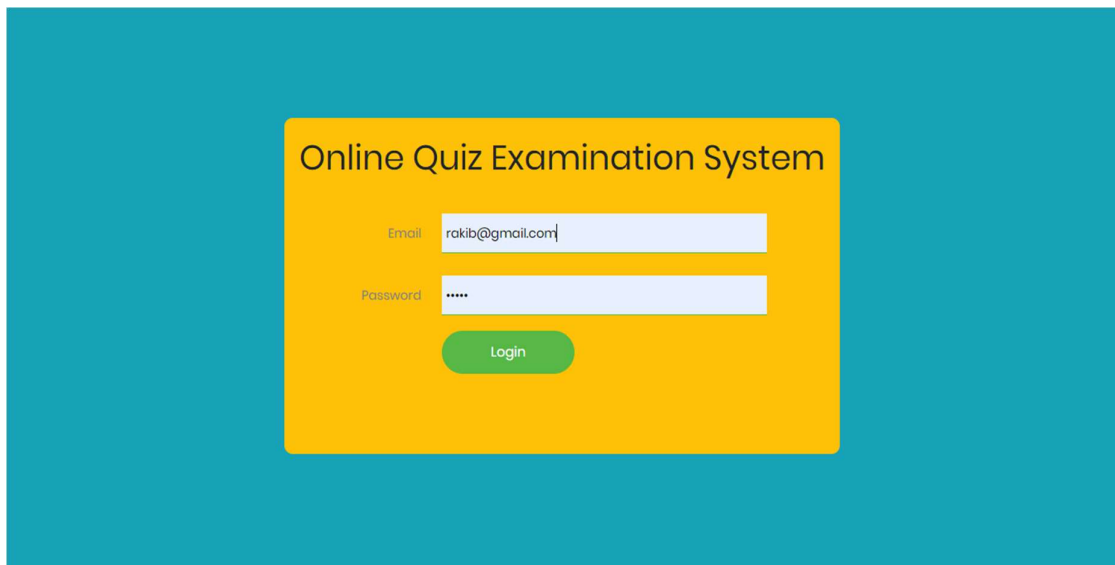


FIGURE 4.9: User Log In Page



FIGURE 4.10: User Page

The Figure 4.11 represent the Exam environment from the site of user panel. User can see instant result after finishing the exam which function is represent in Figure 4.12.

The screenshot shows the 'Online Examination' interface. On the left sidebar, there are sections for 'AVAILABLE EXAM'S' (All Exam's), 'TAKEN EXAM'S' (You are not taking exam yet), and 'FEEDBACKS' (Add Feedbacks). The main content area is titled 'Sudden Test of DBMS' and indicates 'Quiz is for 10 marks.' and 'Remaining Time : 07:40'. The exam questions are as follows:

- 1.) The term "NTFS" refers to which one of the following?
☒ New Technology File System ☐ New Table type File System
☐ New Tree File System ☐ Both A and C
- 2.) Which one of the following refers to the "data about data"?
☐ Directory ☐ Warehouse
☐ Sub Data ☒ Meta Data
- 3.) Which of the following can be considered as the maximum size that is supported by NTFS?
☒ 4GB ☐ 64TB
☐ 16TB ☐ 8TB
- 4.) Which of the following is generally used for performing tasks like creating the structure of the relations, deleting relation?
☒ DML(Data Manipulation Language) ☐ Relational Schema

FIGURE 4.11: During Exam Page

The screenshot shows the 'Exam Result Page'. The left sidebar is the same as in Figure 4.11. The main content area is titled 'Sudden Test of DBMS' and indicates 'Quiz is for 10 marks.' The results are displayed as follows:

RESULT'S

YOUR ANSWER'S

- 1.) The term "NTFS" refers to which one of the following?
Answer : New Technology File System
- 2.) Which one of the following refers to the "data about data"?
Answer : Meta Data
- 3.) Which of the following can be considered as the maximum size that is supported by NTFS?
Answer : 4GB
- 4.) Which of the following is generally used for performing tasks like creating the structure of the relations, deleting relation?

Score 7 / 10 **Percentage 70%**

FIGURE 4.12: Examinee Result Page

4.3 Database

A database is a data structure that organizes and stores data. Most databases contain numerous tables, each of which may contain multiple fields. Tables for products, workers, and financial records, for example, may be included in a company database. A database, more specifically, is an electronic system that allows data to be accessed, altered, and updated quickly. In other terms, a database is a system for storing, managing, and retrieving data that is used by a company. Structured Query Language (SQL) is an acronym for Structured Query Language. It's a relational database management system. A SQL database is a group of tables that contains structured data in a certain format. The SQL database has long been the tried-and-true workhorse of the backend industry, and it is at the center of everything we do in the digital age. SQL is a database management language that allows you to create, delete, retrieve, and edit data in databases. A SQL database is a group of tables that contains structured data in a certain format. The SQL database has long been the tried-and-true workhorse of the backend industry, and it is at the center of everything we do in the digital age. It's a programming language for storing, modifying, and retrieving data from a relational database [19]. The Relational Database System standard language is SQL.

This Here is the Database of this project-

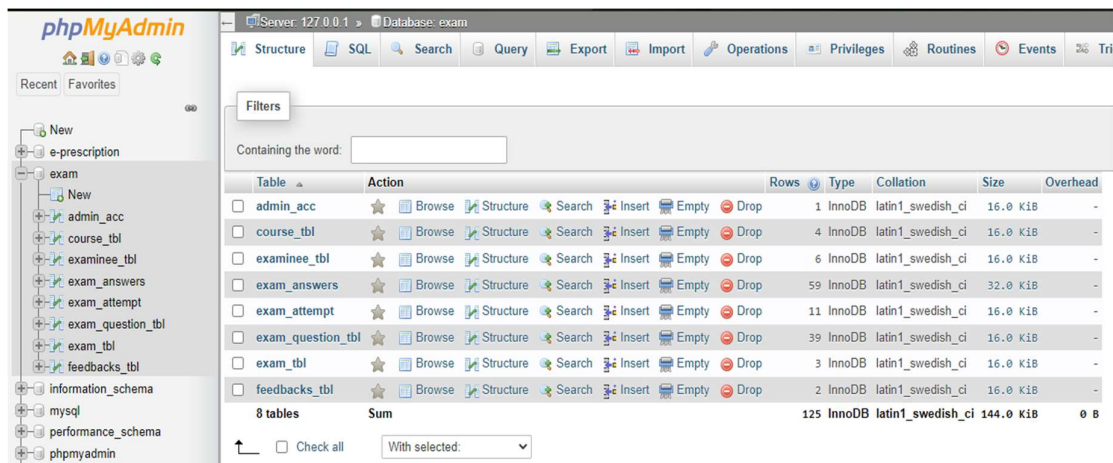


FIGURE 4.13: Database Tables

Chapter 5

LIMITATIONS AND CONCLUSIONS

Limitation means a prescribed time limit according to statute. The term "limitation" refers to the setting or prescribing of a time restriction for taking legal action. Limitation periods are time constraints during which a party must file a claim or notify the other party of a claim. A result, issue, or outcome is a result, issue, or outcome; a settlement or agreement is a result, issue, or outcome: One of the negotiations' outcomes was the payment of restitution. final judgment: The judge has reached a decision. an inference or deduction based on logic. Logic. a conclusion or inference drawn from the premises of an argument. A solid rule of thumb for good conclusion examples is to reiterate your thesis statement if you have one. In addition, your conclusion should connect back to your introduction, highlight three of your essay's important themes, and conclude with a final observation. Readers will be grateful that you spent effort on your writing if you end with an insightful insight. Take a look at how a professional writer comes up with a thought-provoking conclusion. A variety of inferences can be taken from the foregoing analysis. These samples come from corpora and online sources. These are words that are frequently used in conjunction with the word conclusion.

5.1 Limitation

The Internet, which is a prerequisite for online testing, is the only limitation of an online quiz exam. Many individuals are concerned that candidates may cheat on online quiz examinations; nevertheless, this online quiz exam system includes strong anti-cheating features, such as requiring students to use their own email and password to authenticate their identity.

5.2 Conclusion

The conclusion to the report summarizes the findings of the research and draws conclusions from those findings. In order to draw conclusions from research, you must first present the facts of what you discovered, followed by a discussion of what those findings might signify. To various people, the facts could signify many different things. This online quiz system provides facility to conduct online examination worldwide.

It saves time by allowing a large number of students to take the exam at once and displaying the results as soon as the test is completed, eliminating the need to wait for the results. The server generates it automatically. The administrator has the ability to create, alter, and delete exam papers and questions. The user can log in and take the test using his unique id, as well as view the results. This online quiz system allows you to conduct an online assessment from anywhere in the world. It saves time by allowing a large number of students to take the exam at once and displaying the results as soon as the test is completed, eliminating the need to wait for the results. The server generates it automatically. The administrator has the ability to create, alter, and delete exam papers and questions. The user can register, login, and take the test using his unique id, as well as view the results. The project has been designed successfully and is being tested for accuracy and quality. We met all of the project's objectives, and the software we produced will be utilized to search, retrieve, and generate information for the requests in question. The system is run at a high degree of efficiency, and all of the teachers and users who are involved with it are aware of its benefits.

5.3 Suggestions for Future Work

Although the intended simplicity is beneficial to users, several features that could be added to this project in the future to make it more efficient and completely functional. We may add the curriculum, questions, and student information by importing an excel file. Students' results could be printed, questions could be saved as templates for future use, and students may be invited via a link. The major goal of this project is to improve student-teacher interaction: we are attempting to complete the project to the best of our ability in order to satisfy all end users. In the future, we intend to improve the security of our website so that it cannot be hacked. It will give you additional power.

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