

4th Semester Project Report

Submitted to SRM University-AP

DONE BY:

Group-18

CSE C

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Online Math Quiz System

Project title: Online maths quiz system

Aim/Objective:

The aim of this application is not to assess learning, but to give learners a way to remember what they have learned by creating an online math quiz.

Introduction:

We all know the importance of mathematics in our daily life. Learning mathematics will help student to build their logical thinking and problem-solving skills. It has huge applications in day-to-day life. The basic arithmetic operations such as addition, subtraction, multiplication and division are the important part of our lives. Now-a-days students are fearing a lot for learning mathematics and for attempting exams. Some students are losing their marks in mathematics due to simple calculations. This problem may be rectified by practicing the mathematical problems and attempting different quizzes or examinations. This is the best platform for students where they can test their knowledge in mathematics by attempting quizzes. This platform also helps students to overcome their difficulties in mathematics.

Abstract:

We created this platform for students where they can test their knowledge in mathematics by attempting quizzes. This platform also helps students to overcome their difficulties in mathematics. We have created a home page which is connected to different pages like about, register, login and contact us page. About page gives the information about our platform. In register page user will create account in our website. And in login page user will login for quiz by providing username and password. After logging in login page will take user to index page where they find different quiz questions. User have to answer those questions and they have to submit it. After submission it will take them to check page where user will see their result and descriptive answers for the quiz questions. After checking results and quiz answers user will log out.

TECHNOLOGIES USED:

- HTML: Page layout has been designed in HTML.
- CSS: CSS has been used for presentation.
- JAVASCRIPT: All the validation tasks and animations have been developed by JavaScript.
- PHP: PHP is used to interact, collect, save the information and to make a dynamic website.
- MYSQL: MySQL Database has been used as a database for the project.

Algorithm:

Step1: Start

Step2: Login page created with login form and link to different pages like about.php, register.php, contact.php using <a> tag. <style = “background: “> was used for inserting background image. We have used <nav> bar and <a> tag for giving link to different pages. Login form contains username, password and login button. We used <form>, <label>, <input type> and <button>for creating form. Header tags(<h1>, <h2> etc..) were used for headings. After entering details and clicking register it will take you to index.php page.

Step 3: If you are new to the website you can register by entering the user’s details and then you can create your account. Registration form contains username, email, password, confirm password and register button. We used <form>, <label>, <input type> and <button> for entering for registration. We created a database named “registration” which contains a table called user and it is connected with register website using PHP functions. When a student creates an account, the details of the student will be automatically storing in database.

Step 4: We gave information about us in this about.php page. We used <fieldset>, <p> tag for inserting information. And also used for inserting images in the page.

Step 5: We created a database named “quizdbase” in phpMyAdmin which contains questions, answers and loginuser tables.

Step 6: We inserted question names in questions tables, answers in answers table and connected them to website using php functions.

Step7: Different CSS styles like <card>, <input type>, <submit> were used to make this page more beautiful.

Step 8: When the user clicks the submit button, the score will be automatically storing in the loginuser table in database and the page will take to results page.

Step 9: In result page the user will check their marks. We used <table> for showing the results.

Step10: We used anchor (<a>) tag to take the user to another page where they find the descriptive answers for their quiz questions.

Step11: Different animation styles were used for this page.

Step12: Logout button was created using <a> tag and <submit> functions. By clicking logout out user will go to the login page again.

Step13: END

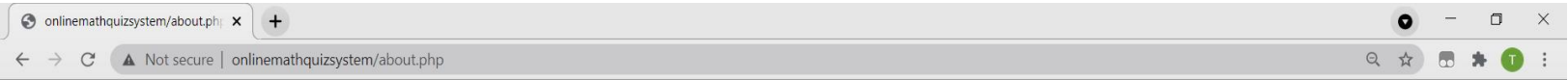
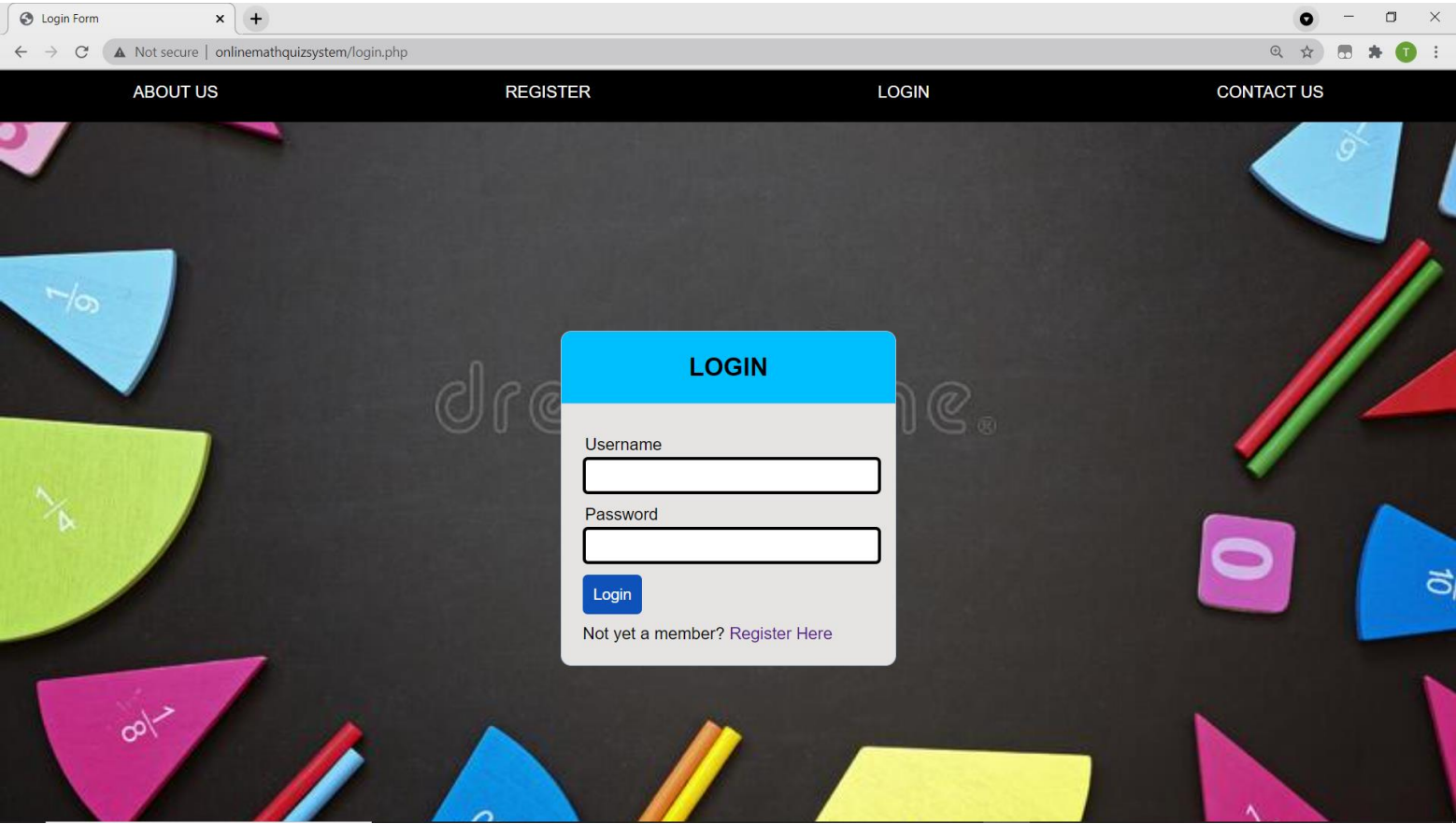
Hardware Requirements:

- Processor: Pentium or greater
- RAM: 512 MB
- Hard Disk: Depends on how much data is stored in Database
- Keyboard
- Monitor

Software Requirements:

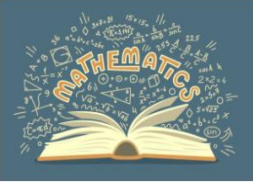
- OS: Windows
- Database: MySQL
- XAMPP

Sample Input and Output:



Welcome To Math World

We all know the importance of mathematics in our daily life. Learning mathematics will help student to build their logical thinking and problem-solving skills. It has huge applications in day-to-day life. The basic arithmetic operations such as addition, subtraction, multiplication and division are the important part of our lives.




Now-a-days students are fearing a lot for learning mathematics and for attempting exams. Some students are loosing their marks in mathematics due to simple calculations. This problem may be rectified by practicing the mathematical problems and attempting different quizzes or examinations. This is the best platform for students where they can test their knowledge in mathematics by attempting quizzes. This platform also helps students to overcome their difficulties in mathematics.

The purpose of this online test stimulator is to


- > take the online test in an efficient manner
- > overcome the problem of time wasting for checking each paper individually.

The main objective of this platform is to increase the brilliance of student in mathematics and to save their time.

This platform is used by the user to register and login for the exam. User will be able to take the test and see their marks according to their performance. Our database stores the details of the user from the registration like their username, email and their encrypted password. We will not only be able to store the questions and answers but also able to store the results of the users in our databse.



We will provide you different mathematic questions in order to prepare you for your exams. And we will also change questions day to day to make you attempt different problems. We are also providing answers for quiz questions in result page.



Registration Form

Not secure | onlinemathquizsystem/register.php

REGISTER

Username

Email

Password

Confirm password

[Register](#)

Already a member? [Login](#)

Login Form

Not secure | onlinemathquizsystem/login.php

[ABOUT US](#) [REGISTER](#) [LOGIN](#) [CONTACT US](#)

LOGIN

Username

Password

[Login](#)

Not yet a member? [Register Here](#)

Home Page

x

+

Not secure | onlinemathquizsystem/index.php

Key

Star

Tab

Settings

T

More

lakshmi , Welcome To Math Quiz

Welcome lakshmi, you have to select only one out of 4 options. Best of Luck :)

Half the perimeter of a rectangular room is 46 m, and its length is 6 m more than its breadth. What is the length and breadth of the room?

☐ 2m,20m

☐ 2m,3m

☐ 56m,40m

☒ 26m,20m

If $y = 3x + 12$ and $y = 5$, what is x ?

☐ $7/3$

☐ $3/7$

☐ -7

☒ $-7/3$

Home Page

x

+

Not secure | onlinemathquizsystem/index.php

Key

Star

Tab

Settings

T

More

Find the HCF of 1848, 3058 and 1331?

☐ 9

☒ 14

☐ 13

☐ 11

Home Page

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What will be the reflection of the point (4, 5) about the X-axis, in the fourth quadrant?

☐ (4,5)

☒ (4,-5)

☐ (-4,-5)

☐ (-4,5)

The lateral surface area of a right circular cone of height 28 cm and base radius 21 cm(in sq. cm) is:

☒ 2310

☐ 2110

☐ 1055

☐ 1155

SUBMIT

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Results

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Math Quiz

Results	
Questions Attempted	Out of 5, you have selected 5options
Your Total Score	your total score is4

[Click Here for Quiz Answers](#)

LOGOUT

SOLUTIONS

Question 1

Let L and B be the length and breadth of the room. Then, the perimeter of the room = $2(L+B)$ metres
From question, $L=6+B \dots (1)$
 $2(L+B)/2 = 46 \Rightarrow L+B=46 \dots (2)$
Using Substitution method:
Substituting the value of L from (1) in (2), we get
 $6+B+B=46$
 $\Rightarrow 6+2B=46 \Rightarrow 2B=40$
 $\Rightarrow B=20$ m.
Thus, $L=26$ m

Question 2

Given $y=3x+12 \dots (1)$
 $y=5 \dots (2)$
Substituting the value of y from (2) in (1), we get
 $3x+12 = 5$
 $\Rightarrow 3x = 5-12$
 $\Rightarrow 3x = -7$
 $\Rightarrow x = -7/3$.

Question 3

we have factors of
 $1848=11*2*2*2*3*7$
 $3058=11*2*139$
 $1331=11*11*11$
HCF is the highest common factor of the above three. Here the number to all three is 11. Therefore the HCF of 1848, 3058, 1331 is 11.

Question 4

Point (4,5) is lies in first quadrant and reflection of this point on the x axis lies in fourth quadrant.
so in forth quadrant x is positive and y is negative.
The reflection of (4,5) on the x-axis has coordinates (4,-5)

Question 5

$h = 28$ cm; $r = 21$ cm
Therefore, slant height (i) $= \sqrt{28^2 + 21^2}$
 $= 35$ cm
Lateral surface area $= \pi r l$
 $= 22/7 \times 21 \times 35$
 $= 2310$ cm²

c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 51

Server version: 5.7.31 MySQL Community Server (GPL)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

Database
information_schema
mysql
performance_schema
quizdbase
registration
sys

6 rows in set (0.00 sec)

mysql> use registration;

Database changed

mysql> show tables;

Tables_in_registration
users

1 row in set (0.00 sec)

mysql> desc users;

Field	Type	Null	Key	Default	Extra
id	int(11)	NO	PRI	NULL	auto_increment
username	varchar(100)	NO		NULL	
email	varchar(100)	NO		NULL	
password	varchar(100)	NO		NULL	

4 rows in set (0.00 sec)

mysql> select * from users;

id	username	email	password
1	AP19110010344	nagalakshmi_thota@srmap.edu.in	d2e75d05f029188dc28a5fcee7bd7081
2	sai gayathri	gayathri149@gmail.com	a29bac723ca2d59ed78a2d715e17e92f
3	Lakshmi	lakshmi179@gmail.com	1eaf7c068a250a38e3bab770053c14c3

3 rows in set (0.00 sec)

mysql> use quizdbase;

Database changed

mysql> show tables;

Tables_in_quizdbase
answers
loginuser
questions

3 rows in set (0.00 sec)

mysql> desc questions;

Field	Type	Null	Key	Default	Extra
qid	int(250)	NO	PRI	NULL	auto_increment
question	varchar(250)	NO		NULL	
ans_id	int(250)	NO		NULL	

3 rows in set (0.00 sec)

mysql> select * from questions;

qid	question	ans_id
1	Half the perimeter of a rectangular room is 46 m, and its length is 6 m more than its breadth. What is the length and breadth of the room?	4
2	If $y = 3x + 12$ and $y = 5$, what is x ?	8
3	Find the HCF of 1848, 3058 and 1331?	12
4	What will be the reflection of the point (4, 5) about the X-axis, in the fourth quadrant?	14
5	The lateral surface area of a right circular cone of height 28 cm and base radius 21 cm(in sq. cm) is:	17

5 rows in set (0.00 sec)

```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
mysql> desc answers;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| aid   | int(250)  | NO   | PRI | NULL    | auto_increment |
| answer | varchar(250) | NO   |     | NULL    |              |
| ans_id | int(250)  | NO   |     | NULL    |              |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from answers;
+-----+-----+-----+
| aid | answer | ans_id |
+-----+-----+-----+
| 1   | 2m,20m | 1       |
| 2   | 2m,3m  | 1       |
| 3   | 56m,40m | 1       |
| 4   | 26m,20m | 1       |
| 5   | 7/3     | 2       |
| 6   | 3/7     | 2       |
| 7   | -7      | 2       |
| 8   | -7/3    | 2       |
| 9   | 9        | 3       |
| 10  | 14       | 3       |
| 11  | 13       | 3       |
| 12  | 11       | 3       |
| 13  | (4,5)    | 4       |
| 14  | (4,-5)   | 4       |
| 15  | (-4,-5)  | 4       |
| 16  | (-4,5)   | 4       |
| 17  | 2310     | 5       |
| 18  | 2110     | 5       |
| 19  | 1055     | 5       |
| 20  | 1155     | 5       |
+-----+-----+-----+
20 rows in set (0.00 sec)
```

```
c:\wamp64\bin\mysql\mysql5.7.31\bin\mysql.exe
mysql> desc loginuser;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| uid        | int(250)  | NO   | PRI | NULL    | auto_increment |
| username   | varchar(250) | NO   |     | NULL    |              |
| totalques  | int(250)  | NO   |     | NULL    |              |
| answerscorrect | int(250)  | NO   |     | NULL    |              |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.02 sec)

mysql> select * from loginuser;
+-----+-----+-----+-----+
| uid | username | totalques | answerscorrect |
+-----+-----+-----+-----+
| 1   | AP19110010344 | 5         | 2              |
| 2   | AP19110010344 | 5         | 1              |
| 3   | AP19110010344 | 5         | 0              |
| 4   | AP19110010344 | 5         | 2              |
| 5   | AP19110010344 | 5         | 2              |
| 6   | AP19110010344 | 5         | 2              |
| 7   | AP19110010344 | 5         | 2              |
| 8   | AP19110010344 | 5         | 2              |
| 9   | AP19110010344 | 5         | 2              |
| 10  | AP19110010344 | 5         | 2              |
| 11  | sai gayathri  | 5         | 4              |
| 12  | sai gayathri  | 5         | 4              |
| 13  | sai gayathri  | 5         | 1              |
| 14  | AP19110010344 | 5         | 1              |
| 15  | AP19110010344 | 5         | 1              |
| 16  | sai gayathri  | 5         | 3              |
| 17  | sai gayathri  | 5         | 3              |
| 18  | lakshmi       | 5         | 4              |
| 19  | lakshmi       | 5         | 4              |
| 20  | lakshmi       | 5         | 4              |
+-----+-----+-----+-----+
20 rows in set (0.00 sec)

mysql>
```

END-USER:

This applet can be mainly used by the students to practice the math problems, to test their knowledge in mathematics and to gain confidence for competitive exams etc. This applet can also be used by the professors if they want to check the brilliance of students in the class.

CONCLUSION:

In the conclusion of this project, I would like to say that web technology is a fun and easy programming language and while creating a project like this, it has not just been a good experience but it also helped in the development of my creativity and logical thinking. This project has been built to deal with the Online math quiz system in an easy and an efficient manner. This is designed to provide online examination service to the users. There are predefined criteria for adding the details in the database. This makes the inefficient paper work easier. The purpose of this online test stimulator is to take the online test in an efficient manner and overcome the problem of time wasting for checking each paper individually. The main objective of this platform is to increase the brilliance of student in mathematics and to save their time.

