**WEB APP**

# Quiziliant.com

Built By

**Sahibjot Singh**

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# ABOUT

This Web Application was developed by Sahibjot Singh in 2022. This website aims to create a platform where anyone can create, share and play quizzes on any Topic.

In Analogical Terms, It is a YouTube where we have quizzes instead of Videos. Quizzes can be uploaded by Teachers, Business Individuals or even Volunteers.

# Objective

There are other softwares such as Kahoot available to conduct quizzes. However, there are problems associated with them:

- **Subjective Questions cannot be asked:** How will you ask students the following question -  "Draw the diagram of moving coil galvanometer and explain its functioning".
- **Communities Not Developed:** Quizzes are not able to reach all users. In YouTube, All videos are reachable to users.
- **UI is not Formal:** The User Interface is not formal and is meant for Children. A poll quiz for employees of a company would look weird with that overly colorful graphics and music.
- **No Method to View/Save Quiz Data:** You cannot view how others performed on that quiz. Also, there is no way to get answers for the questions.

My objective is to create a web app that solves all the above mentioned problems. I discovered these problems when my teachers use to send us quizzes during the pandemic.

# Technologies Used

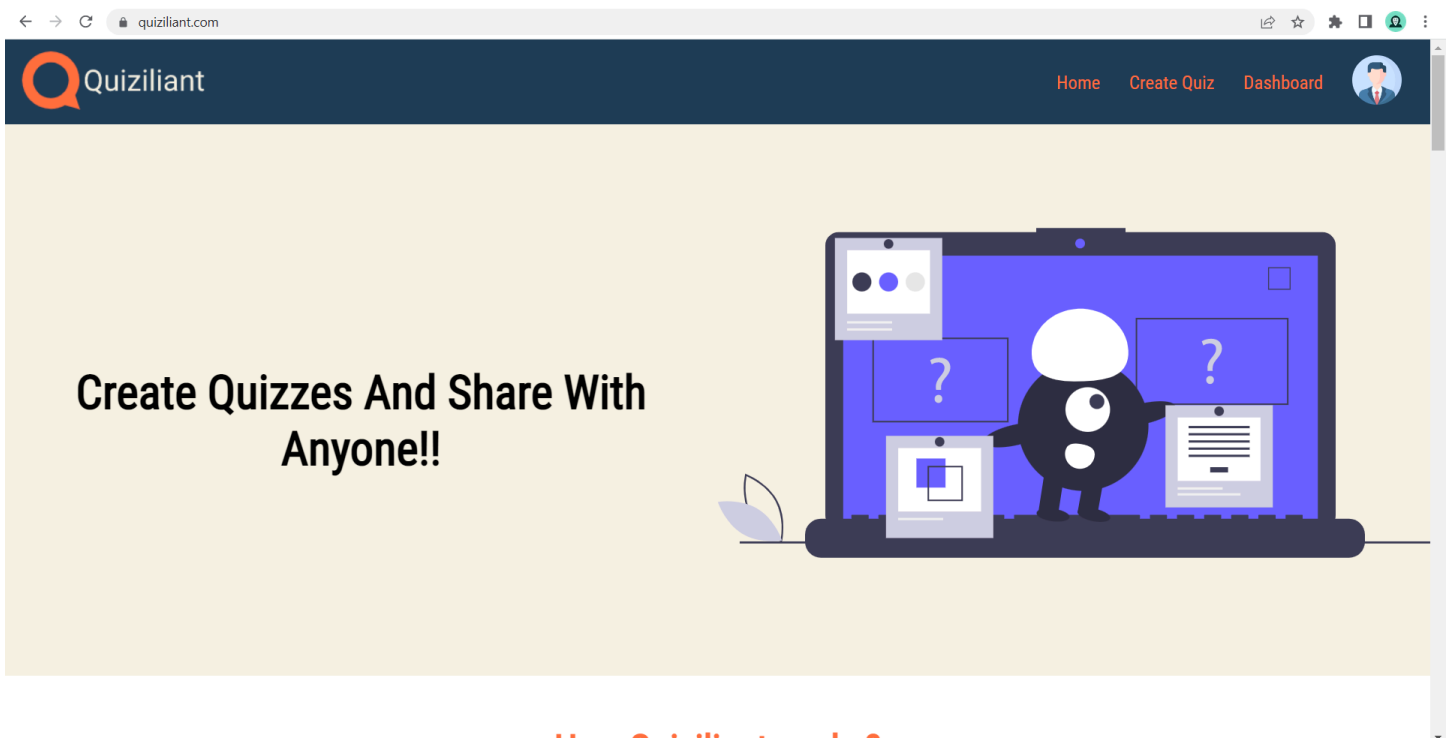**I used the following Programming Languages**

1. HTML
2. CSS
3. JavaScript
4. PHP
5. SQL
6. AJAX
7. JSON

**Following Tools were used**

1. Visual Studio Code
2. Xampp
3. Godaddy

# Landing Page

It provides intro to the website. It contains tutorial in the form of screenshots and text.



To move on to Dashboard, you need to create an account. When you fill details, A PHP script takes all the information and sends to Database. The passwords are MD5 encrypted and Login is made secure using PHP's prepared Statements.

# Dashboard

This is the most important page of the website. Here you can create, play and share the quizzes.

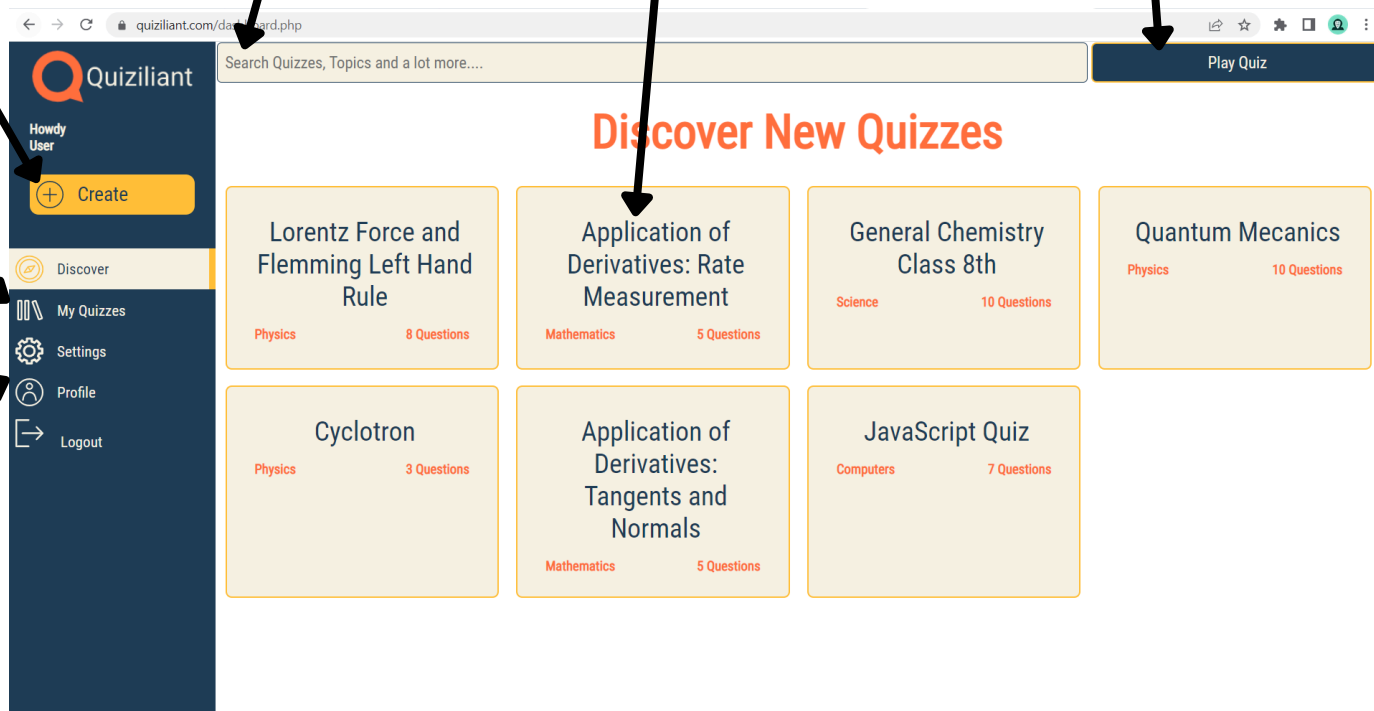Algorithm offers you random quizzes to try

To play the quiz, You can also search a code by unique code which gets generated during its creation

A Search option to find quizzes

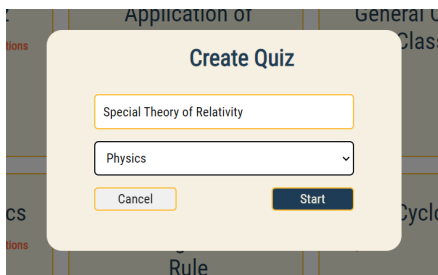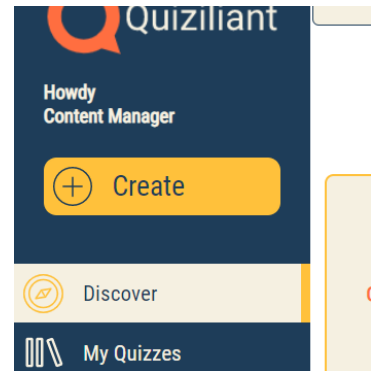This button opens a new dialogue box to create new quiz

All created and played quizzes will be shown on this page to view stats, review answers etc.

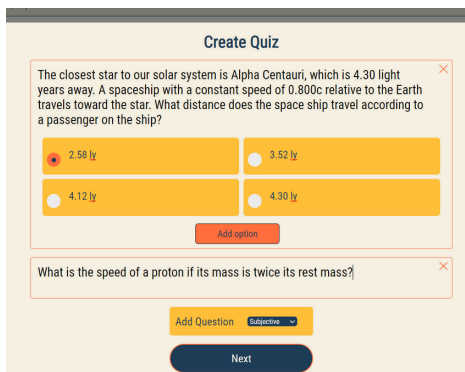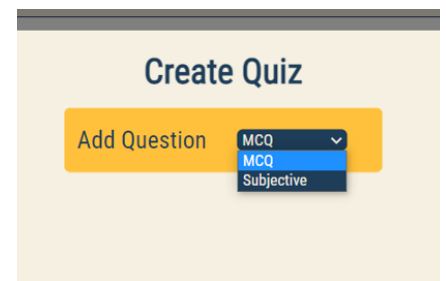Some basic settings and option to view your profile

# Creating A Quiz

Step 1: Click on the create Button. A Box Appears up.

**Quiziliant**

Howdy
Content Manager

⊕ Create

⊘ Discover

▥ My Quizzes

**Create Quiz**

Special Theory of Relativity

Physics ▾

Cancel          **Start**

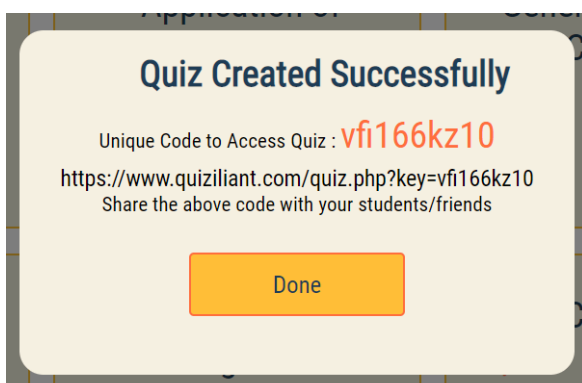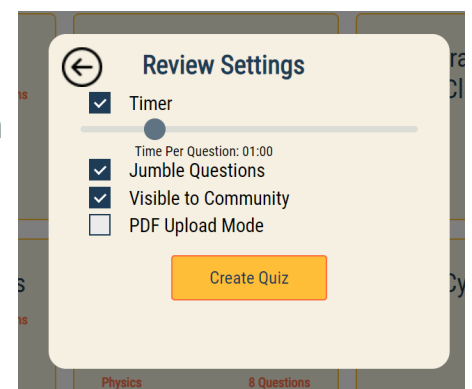Enter Title and Category for Quizzes. A new box appears up to add questions.

Add questions. Here is the unique feature that I invented. You have option to upload a MCQ questions or even a free response one!!

**Create Quiz**

Add Question   MCQ ▾
                MCQ
                Subjective

**Create Quiz**

The closest star to our solar system is Alpha Centauri, which is 4.30 light years away. A spaceship with a constant speed of 0.800c relative to the Earth travels toward the star. What distance does the space ship travel according to a passenger on the ship?            ✕

⦿ 2.58 ly                    ○ 3.52 ly

○ 4.12 ly                    ○ 4.30 ly

Add option

What is the speed of a proton if its mass is twice its rest mass?    ✕

Add Question   Subjective ▾

Next

Make sure to choose correct answer for MCQs. Hit next when you are done with uploading all your questions.

The next step is very important.
Here you have to set how much maximum time can each player spend on a particular question.
Also If you want the user to write the question on notebook and upload the answers, make sure to check the PDF Upload Mode.

← **Review Settings**

☑ Timer

      ●————————
Time Per Question: 01:00

☑ Jumble Questions
☑ Visible to Community
☐ PDF Upload Mode

Create Quiz

Physics          8 Questions

**Quiz Created Successfully**

Unique Code to Access Quiz : **vfi166kz10**

https://www.quiziliant.com/quiz.php?key=vfi166kz10
Share the above code with your students/friends

Done

Congratulations!!!
Your quiz is uploaded and now you have a unique code and link to share this quiz to others.

# Playing A Quiz

To play the Quiz first a player needs to access the quiz using the unique link.
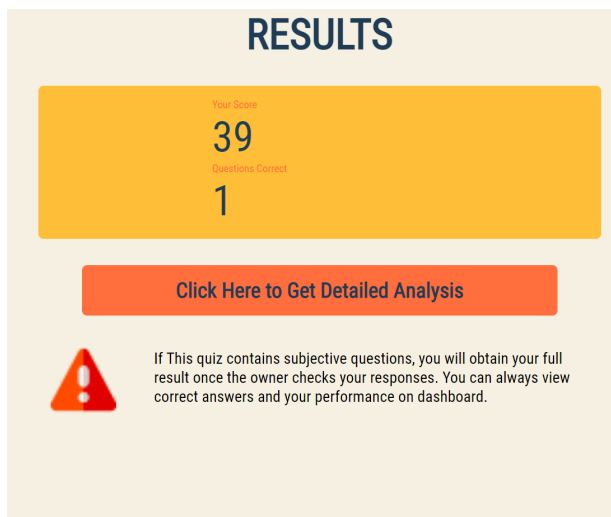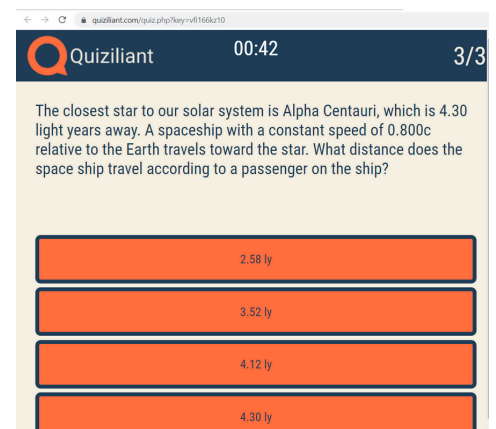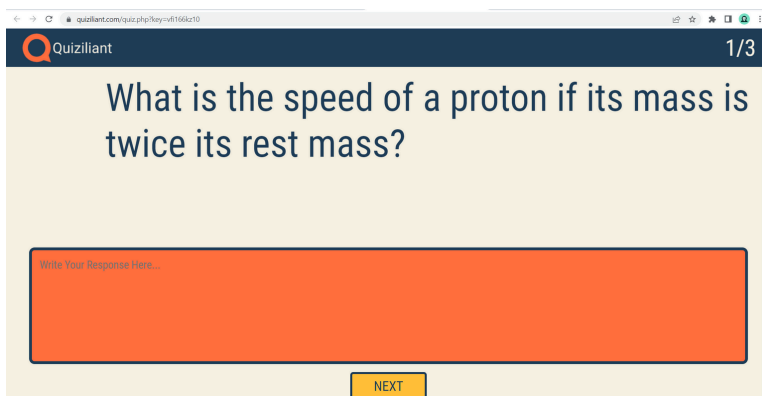
## Special Theory of Relativity
### By Content Manager
### Category: Physics
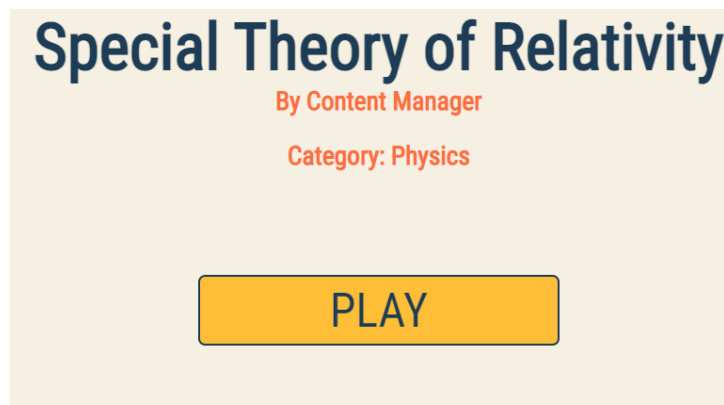
**PLAY**

Play the questions, also watch out for the clock!!
No signup required to play quiz. However, to view the stats and detailed scores signup is required.

**Quiziliant**                    1/3

What is the speed of a proton if its mass is twice its rest mass?

Write Your Response Here...

NEXT

**Quiziliant**       00:42        3/3

The closest star to our solar system is Alpha Centauri, which is 4.30 light years away. A spaceship with a constant speed of 0.800c relative to the Earth travels toward the star. What distance does the space ship travel according to a passenger on the ship?

2.58 ly

3.52 ly

4.12 ly

4.30 ly

## RESULTS

Your Score

### 39

Questions Correct

### 1

Click Here to Get Detailed Analysis

⚠️ If This quiz contains subjective questions, you will obtain your full result once the owner checks your responses. You can always view correct answers and your performance on dashboard.

**Quiziliant**                    1 Questions

Q 1 Explain all the methods of accounting for joint ventures in detail. (15 Marks)

Upload File          Submit

# Checking Responses

You can check the responses by the students by going on My Quizzes Section on the Dashboard. On the "Created" tab , click the desired quiz you want to review.
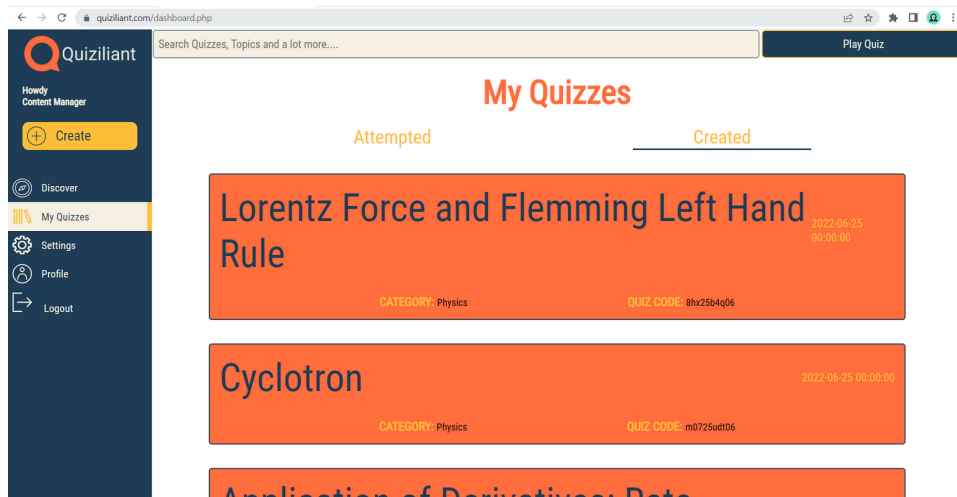


Now, you can check the leaderboard, check answers to the subjective questions, get answer key for MCQs and check the overall performance of all the students who played this quiz.
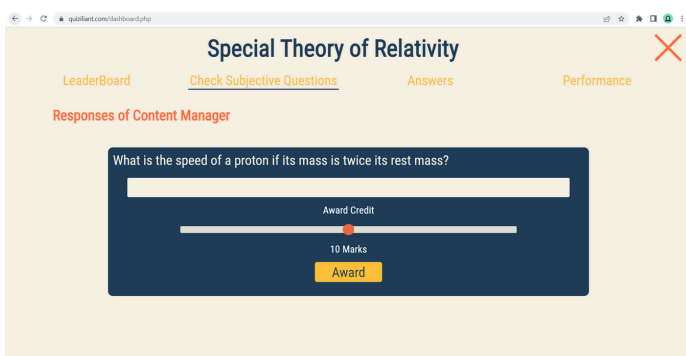


If you gave option to students to directly type the questions, you will see UI like this.

If you chose the PDF upload mode, then you will see UI like this. Click the file view button to see the responses in another TAB.
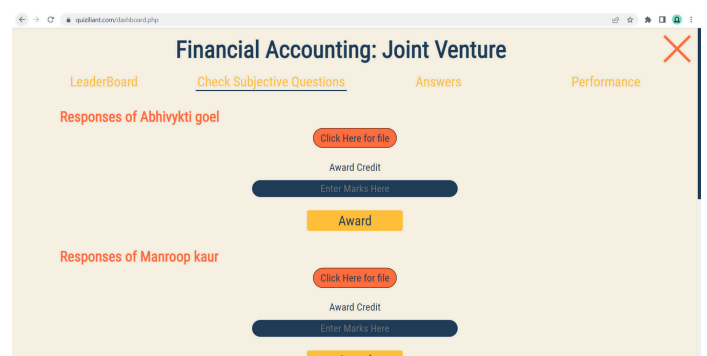
# DATABASE STRUCTURE

I designed the following MYSQL database. It is designed keeping in mind, saving space and increase speed for search queries.

```
quiziliant
   New
   attempts
   category
   quizzes
   subjectivequestions
   users
```
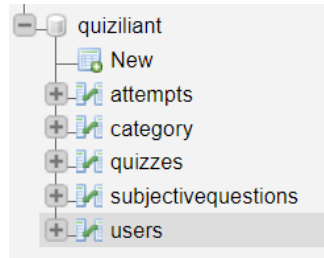
| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| id | int(12) | NO | PRI | NULL | auto_increment |
| name | varchar(255) | NO | | NULL | |
| score | int(6) | NO | | NULL | |
| timeTaken | longtext | NO | | NULL | |
| pdf | char(1) | NO | | F | |
| answers | longtext | NO | | NULL | |
| correct | int(5) | NO | | NULL | |
| email | varchar(255) | YES | | NULL | |
| quizID | varchar(12) | NO | | NULL | |
| Attempted_Date | timestamp | NO | | CURRENT_TIMESTAMP | |
| correctOrder | longtext | NO | | NULL | |

**Table Attempts:** To record all the responses of players

**Table Category:** To store all the categories like: Physics, Chemistry etc. With this, new categories can be added in a space efficient way

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| id | int(11) | NO | PRI | NULL | auto_increment |
| Name | varchar(255) | NO | | NULL | |

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| id | int(15) | NO | PRI | NULL | auto_increment |
| code | char(10) | YES | UNI | NULL | |
| title | varchar(255) | NO | | NULL | |
| category | int(3) | NO | | NULL | |
| timer | char(1) | NO | | NULL | |
| timePerQ | int(6) | NO | | NULL | |
| jumble | char(1) | NO | | NULL | |
| showans | char(1) | NO | | NULL | |
| sound | char(1) | NO | | NULL | |
| visibility | char(1) | NO | | NULL | |
| pdf | char(1) | NO | | F | |
| quiz | longtext | NO | | NULL | |
| numq | int(3) | NO | | NULL | |
| dateUploaded | timestamp | NO | | CURRENT_TIMESTAMP | |
| uploadedBy | varchar(255) | NO | | NULL | |

**Table Quizzes:** It stores all the quizzes. The questions are stored in a single 3D JSON array containing important information such as question value, all the options, correct option and mode.

**Table Subjective Questions:** Stores response and scores of students.

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| id | int(10) | NO | PRI | NULL | auto_increment |
| student_id | int(11) | NO | | NULL | |
| question | longtext | NO | | NULL | |
| response | longtext | NO | | NULL | |
| award | int(2) | NO | | NULL | |
| code | varchar(12) | NO | | NULL | |

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| no | int(10) | NO | PRI | NULL | auto_increment |
| name | varchar(255) | NO | | NULL | |
| email | varchar(255) | NO | | NULL | |
| password | varchar(255) | NO | | NULL | |

**Table Users:** Stores Login Data. Passwords are MD5 encrypted.

Thank you!