

# Programming Multiple Quiz System

A simple Programming Quiz System containing-

- **Instruction page**
  - Student enters Roll No. here
- **Quiz page**
  - Timed-Quiz appears here
- **Result page**
  - Result of the user is shown here
- **Login Page**
  - Admin has to login here first.(*admin, 12345*)
- **Admin page**
  - All admin related functions are here!
- **Videos**
  - Users can also watch a video during the quiz. Or anything you want to display to them.

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## APIs used to enter and Display Programming codes

- [CodeMirror](#) In-browser code editor.
- [SyntaxHighlighter](#) JavaScript code syntax highlighter.

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## Coded & Tested using-

- [XAMPP](#) for **Apache** server and **MySQL**.
- [Sublime Text](#) for code editing.
- **Firefox** and **Chrome** browsers.
- **Mac OSX & Windows**.

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## How to install on your system-

1. Install *XAMPP* and make sure **Apache Web Server** and **MySQL Database** are running
2. copy-paste the **quiz\_system\_git** folder in **htdocs** folder associated with *XAMPP*
3. goto **phpMyAdmin** and *create* a database.
4. *import* the quiz database from **database** folder into it and make sure it has all 5

tables.

5. *Truncate* the tables to have clean database.
  6. **INSERT** first admin in the **admins** database.
  7. make required changes in **scripts/connect\_db.php**
  8. Get *favicons*-
    - visit [faviconit](#) (© 2013-2014 Eduardo Russo).
    - Upload atleast 200x200px img with maximum 1MB size limit.
    - click on **favicon it!** and download the **zip** file.
    - extract the **faviconit.zip** in the **img** folder.
  9. Add videos in **webm**(*video.webmhd.webm*) and **mp4**(*video.mp4*) formats in **videos** folder.
  10. login to the admin page using *http://localhost/quiz\_system\_git/login.php*
  11. start the quiz @ *http://localhost/quiz\_system\_git/*
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## Features provided for the *Admin* in *admin.php* page-

- Clicking on your **username** in the navbar *refreshes* the page.
- **Quiz Homepage** opens the *Instructions* page in a new tab.

### **Manage Questions-**

- **Create a Question-**
  - *True/False* - Create a Question with 2 options- True and False.
  - *Multiple Choice* - Create a Question with 4 options.
- **View All Questions-**
  - Shows all the questions of all the quizzes on a single page along with the correct answers.
- **Edit a Question-**
  - Select one question from all the questions in all quizzes to edit.
- **Delete Some Questions-**
  - Select as many questions as you want to delete from the database.
- **Delete All Questions-**
  - Deletes all the questions from all the quizzes, but leaves the quizzes intact.

### **Quiz Management-**

You will see all your quizzes lined up here.

- **Add New Quiz-**
  - Add a new quiz to the database and allot the Duration for the quiz, and Max no. of Questions to be displayed to the users.
- Further list contains **QuizName** along with the time and no. of questions allotted to it.

## # Hovering over a QuizName-

- **Quiz Settings**
  - *Set Default* - Sets the quiz as default i.e. it will be the one USER will be attempting.
  - *Update Metadata* - edit the Duration for the quiz, and Max no. of Questions to be displayed.
  - *Delete this Quiz* - Deletes the quiz along with all its questions.
- **Manage Questions**
  - *View All Questions* - Shows all Questions of the quiz
  - *Edit a Question* - Edit a single question from the quiz
  - *Delete Some Questions* - Delete some questions from the quiz
- **Results**
  - *Result(Top 20)* - Shows the top 20 Rank Holders.
  - *Result(All)* - Shows all the users, sorted according to rank.
  - *Clear the Result* - Delete all records of the users who took this quiz.

## Settings

- *Register an Admin*
    - Register a new admin
  - *Change Password*
    - Change password to your account
  - *Delete Your Account*
    - Delete Your admin account
  - *Reset All Tables*
    - Truncates all tables and sets one admin ID as default (*admin, 12345*)
  - *LogOut*
    - Log out of your admin account.
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## Interface for Creating/Editing a Question

1. Select/re-select the quiz to which you want to add/transfer the question.
  - If there are no quizzes in the dropdown, create a Quiz first.
2. Type/Change your Question.
3. If there's a program/code in the question,
  - Select/Change Language of the code
  - Add/Edit the code below

4. If adding a True/False Question-
  - Select the correct answer
5. If adding a Multiple Choice Question-
  - Write/Edit the 4 options(single lined) and choose the correct one.
6. Click Add to quiz/Save.

## Interface for Viewing/SelectingForEdit/DeletingSome Questions

1. Quiz\_Name is displayed above its question.
2. If there's code, it'll be displayed after the text part of the Question.
3. Options are displayed below.
4. Correct answer is Underlined and Emphasised!
5. You can select only 1 question for editing.
6. You can select any number of questions to delete.

## Result Interface

1. List is already sorted according to their **ranks**.
  2. Ranks are decided on the basis of *highest marks first*, followed by the *time taken by the user* to finish the quiz.
  3. TimeStamp contains the time user started the quiz.
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## Features provided in other pages

### # index.php(*Instructions page*)

1. Quiz name along with no. of questions to display and durations is displayed here.
2. An overlay is provided, currently used to display a video to the user while they wait to start the quiz.
3. User can't proceed without entering the username/RollNo.
4. User can't attempt the same quiz twice.
5. HTML can be edited to add your own rules and the like.
6. Right-click is disabled.

### # quiz.php(*Quiz page*)

1. Quiz name is displayed on the top
2. Countdown is fixed & displayed on the top-right of the screen.
3. At zero the quiz will automatically be submitted.
4. There's no negative marking.

5. User can answer none, some or all the questions.
6. Code/Program will be displayed in color-coded format.
7. A confirmation dialog will pop-up if the user tries to close, refresh or navigate away from this page.
8. Right-click is disabled.
9. An overlay is provided, currently used to display a video to the user during the quiz.
10. User can't directly access this page.

### # result.php(*Result page*)

1. Marks of the user are displayed here(1 mark per correct answer).
2. An overlay is provided, currently used to display a message to the user on click.
3. User can't directly access this page.
4. if user clicks on back and goes back to the quiz, he can't resubmit the quiz.

### # login.php(*Admin-Login page*)

1. A user can login from multiple systems at the same time.
  2. User can't access admin page before logging in.
  3. Using sessions to store the session of an admin. Re-login isn't necessary as long as the admin doesn't click logOut.
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## Miscellaneous features

1. Using *codemirror* to have a better textarea input for programs/codes.
2. Using *syntax highlighter* to display the code better in a question.
3. A lot of *MYSQL error checks* are in place in case of some unknown error.
4. Basic **failsafes** are in place for things like *SQL injection*.
5. Layout is designed keeping *different window sizes* in mind.
6. It isn't designed to work on **Internet Explorer** also. So, it might be displayed differently on that(Styling difference).
7. None of the other pages can be accessed directly except the **logout.php** as it can only be accessed by the admin to logout.