

# Project report

**Project Title:** Online Examination System and Management.

## **Description:**

This is a project for making an application that helps an Instructor to create an online exam and a student to take the exam.

## **Languages and Tools used:**

We have used HTML5,CSS,BOOTSRAP,JAVASCRIPT,PHP,SQL and visual studio editor.

## **Functionalities:**

**Log-In:** Instructor and student will be asked to fill Username and Password field to log-In. Here we have predefined users with their credentials. You can add/modify/delete user as per your requirement because here we have implemented code for log-in page, not for sign-up page. Instructor and student's credentials is stored in 'info' and 'sinfo' table respectively.

**DASHBOARD:** After logging-in, Instructor and student will be redirected to their dashboard page respectively. 1) From dashboard Instructor can generate exam, can see results, can logout. 2) Student can take exam, can see his/her result, can logout.

## **Instructor:**

- 1) **Generate exam:** By clicking generate exam from dashboard Instructor will be redirected to 'generate exam' page. Instructor can generate

exam by filling information like exam title, duration of exam, time etc. and Instructor must have different exam title every time otherwise it will not allow Instructor to generate exam of same name. By clicking GO AHEAD button exam's information will be stored into 'exam\_desc' table and Instructor will be redirected to the 'add-question' page. At add-question page, Instructor will be asked to add a question and its detail like options, correct answer, marks etc. After creating list of questions, it will be stored into the 'add\_question' table for respective subject. Now Instructor can preview those questions by clicking PREVIEW button and will be redirected to 'preview' page. At preview page, list of questions will be at Instructor's screen and Instructor can modify, delete question and its detail. Most important note: At add-question page, Instructor has to remember that for every question Instructor must click add question button and for last question Instructor has to click preview button so for last question Instructor does not have to click add question button, by simply clicking preview button last question of Instructor's exam will be stored into the add-question table. For example, Instructor wants to add 10 questions in their exam so Instructor needs to write question, options etc. field and has to click ADD QUESTION button, this process must follow by Instructor 9 times and for 10<sup>th</sup> question Instructor has to click PREVIEW button instead of ADD QUESTION. At Preview page, Instructor has to click on CREATE EXAM BUTTON and exam will be stored into the database.

- 2) **Results:** Instructor can see the list of exam which he/she had created and by clicking one of the exam title Instructor can see the results of student who have appeared in the exam.
- 3) **Log-out:** From dashboard Instructor can log-out.

### **Student:**

- 1) **Take exam:** Here student can see list of exam and its starting time, subject name etc. Student can click on exam title and can take exam if it has started. We have added auto-submit feature. Student needs to submit exam before deadline, otherwise it will get submit,

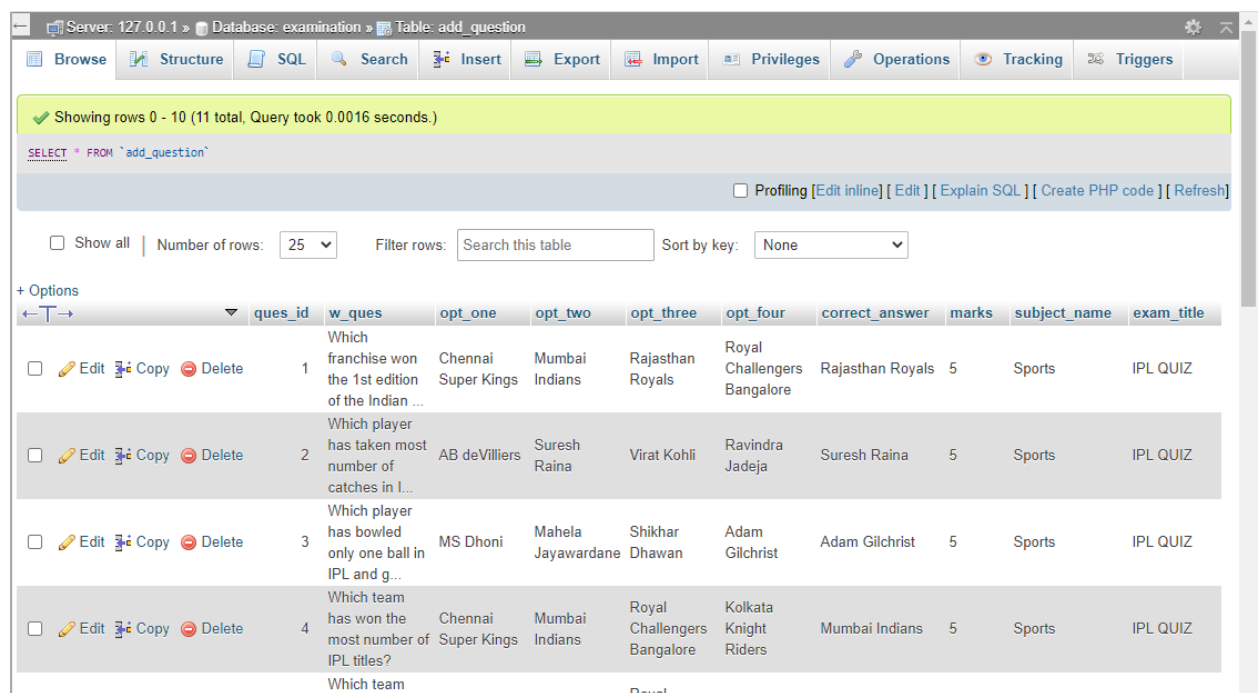
automatically. Marks will get evaluated and total marks will be shown to student at next page, immediately. Exam will be shown to students according to their respective academic year(ac\_year).

2) **See results:** Student can see his/her result for which he/she has appeared.

3) **Logout:** From dashboard student can logout.

## DATABASE:

1) add\_question: This table stores question and its detail for respective exam. Instructor will add question into it at add-question page.



|   | ques_id | w_ques  | opt_one             | opt_two            | opt_three                   | opt_four                    | correct_answer   | marks | subject_name | exam_title |
|---|---------|---|---------------------|--------------------|-----------------------------|-----------------------------|------------------|-------|--------------|------------|
| <input type="checkbox"/> Edit Copy Delete | 1       | Which franchise won the 1st edition of the Indian ... | Chennai Super Kings | Mumbai Indians     | Rajasthan Royals            | Royal Challengers Bangalore | Rajasthan Royals | 5     | Sports       | IPL QUIZ   |
| <input type="checkbox"/> Edit Copy Delete | 2       | Which player has taken most number of catches in I... | AB deVilliers       | Suresh Raina       | Virat Kohli                 | Ravindra Jadeja             | Suresh Raina     | 5     | Sports       | IPL QUIZ   |
| <input type="checkbox"/> Edit Copy Delete | 3       | Which player has bowled only one ball in IPL and g... | MS Dhoni            | Mahela Jayawardane | Shikhar Dhawan              | Adam Gilchrist              | Adam Gilchrist   | 5     | Sports       | IPL QUIZ   |
| <input type="checkbox"/> Edit Copy Delete | 4       | Which team has won the most number of IPL titles?     | Chennai Super Kings | Mumbai Indians     | Royal Challengers Bangalore | Kolkata Knight Riders       | Mumbai Indians   | 5     | Sports       | IPL QUIZ   |
|   |         | Which team  |                     |                    | Royal                       |                             |                  |       |              |            |

2) exam\_desc: This table stores exam title and its details. Instructor will add exam description at generate-exam page.

Server: 127.0.0.1 » Database: examination » Table: exam\_desc

Showing rows 0 - 1 (2 total, Query took 0.0009 seconds.)

`SELECT * FROM `exam_desc``

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

|   | exam_id | exam_title | exam_date  | exam_dur | exam_time   | exam_year | instructor_username | subject_name |
|---|---------|------------|------------|----------|-------------|-----------|---------------------|--------------|
| <input type="checkbox"/> Edit Copy Delete | 1       | IPL QUIZ   | 2021-03-09 | 15       | 14:20:00.00 | 2         | Mahela Jayawardane  | Sports       |
| <input type="checkbox"/> Edit Copy Delete | 7       | QUIZ       | 2021-03-09 | 5        | 14:30:00.00 | 2         | Ricky Ponting       | Maths        |

☐ Check all | With selected: Edit Copy Delete Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

3) info: stores the credentials of Instructor.

Server: 127.0.0.1 » Database: examination » Table: info

Showing rows 0 - 3 (4 total, Query took 0.0008 seconds.)

`SELECT * FROM `info``

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

|   | instructor_id | username           | password  | subject           |
|---|---------------|--------------------|-----------|-------------------|
| <input type="checkbox"/> Edit Copy Delete | 1             | Stephen Flemming   | Chennai   | English           |
| <input type="checkbox"/> Edit Copy Delete | 2             | Ricky Ponting      | Delhi     | Maths             |
| <input type="checkbox"/> Edit Copy Delete | 3             | Mahela Jayawardane | Mumbai    | Sports            |
| <input type="checkbox"/> Edit Copy Delete | 4             | Simon Katich       | Bangalore | General Knowledge |

☐ Check all | With selected: Edit Copy Delete Export

4) sinfo: stores the credentials of students.

Server: 127.0.0.1 » Database: examination » Table: sinfo

Showing rows 0 - 7 (8 total, Query took 0.0008 seconds.)

`SELECT * FROM `sinfo``

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

|   | student_id | username     | password  | ac_year |
|---|------------|--------------|-----------|---------|
| <input type="checkbox"/> Edit Copy Delete | 1          | Rohit Sharma | Mumbai    | 2       |
| <input type="checkbox"/> Edit Copy Delete | 2          | Virat Kohli  | Bangalore | 2       |
| <input type="checkbox"/> Edit Copy Delete | 3          | Shreyas Iyer | Delhi     | 2       |
| <input type="checkbox"/> Edit Copy Delete | 4          | KL Rahul     | Punjab    | 2       |
| <input type="checkbox"/> Edit Copy Delete | 5          | David Warner | Hyderabad | 1       |
| <input type="checkbox"/> Edit Copy Delete | 6          | Eoin Morgan  | Kolkata   | 1       |
| <input type="checkbox"/> Edit Copy Delete | 7          | Steve Smith  | Rajasthan | 1       |
| <input type="checkbox"/> Edit Copy Delete | 8          | MS Dhoni     | Chennai   | 1       |

☐ Check all | With selected: Edit Copy Delete Export

5) result: stores the results of students. Instructor and student can see the result.

Server: 127.0.0.1 » Database: examination » Table: result

Showing rows 0 - 2 (3 total, Query took 0.0009 seconds.)

`SELECT * FROM `result``

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

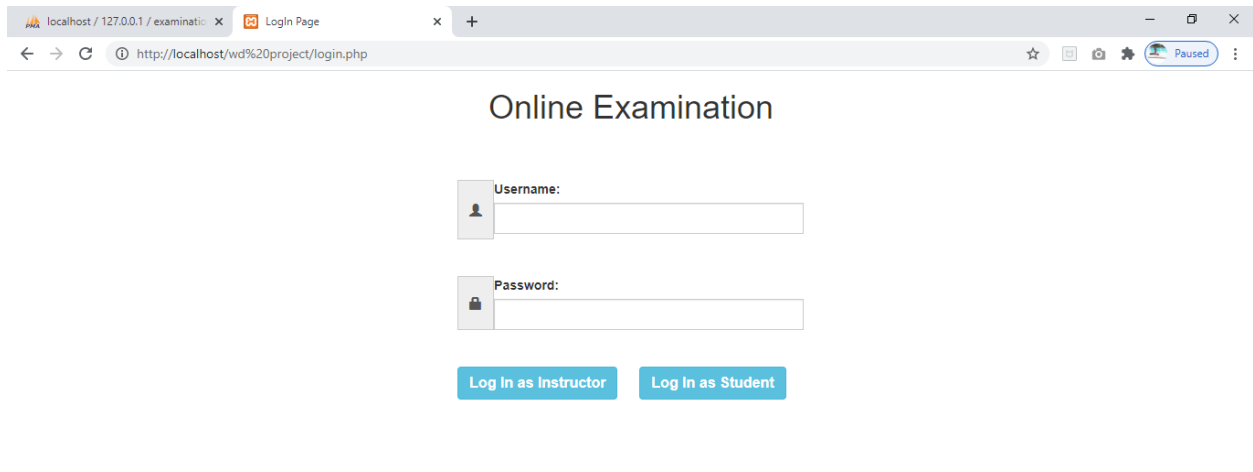
|   | result_id | username     | exam_title | marks | total_marks |
|---|-----------|--------------|------------|-------|-------------|
| <input type="checkbox"/> Edit Copy Delete | 33        | KL Rahul     | QUIZ       | 15    | 15          |
| <input type="checkbox"/> Edit Copy Delete | 35        | Virat Kohli  | QUIZ       | 5     | 15          |
| <input type="checkbox"/> Edit Copy Delete | 36        | Rohit Sharma | QUIZ       | 10    | 15          |

☐ Check all | With selected: Edit Copy Delete Export

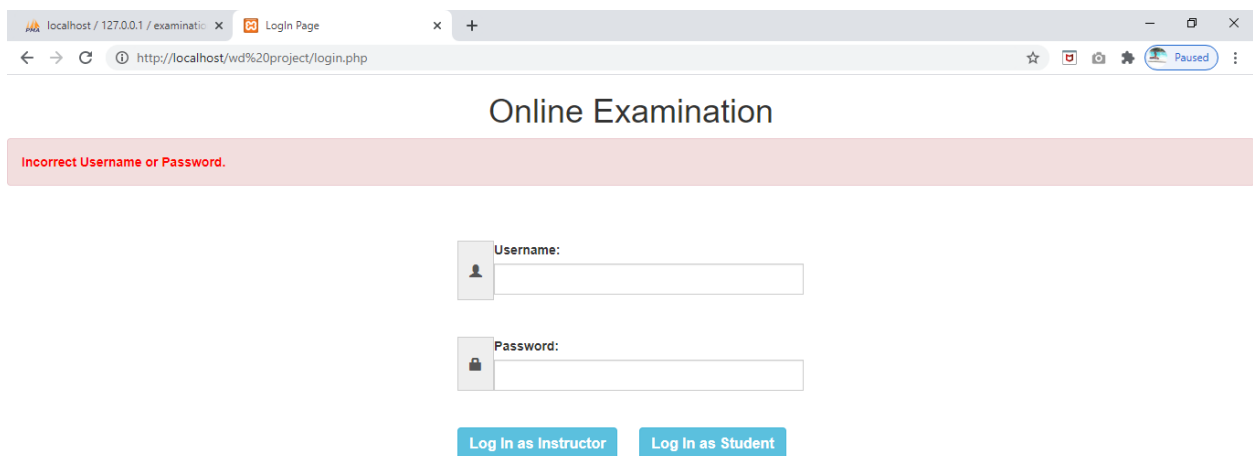
☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

## Snapshots of the Project:

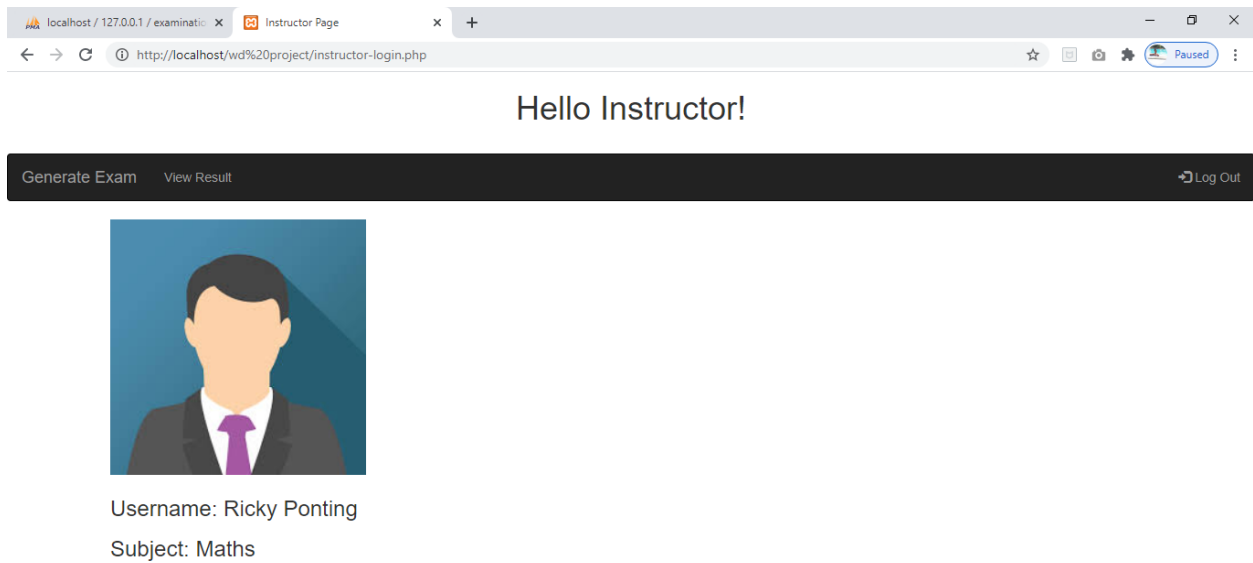
1. This is the first page in our application in which an instructor or a student can log-in respectively.



2. If a user enters invalid username or password, the error line appears in red color as shown below. On successful log-in, the user is directed to the respective dashboard page.



3. This is the instructor's dashboard consisting of three different options:-
- i. Generate Exam
  - ii. View Result
  - iii. Logout



4. When user clicks on 'Generate Exam', he is asked to submit the exam description with a title that has not been used earlier.

The screenshot shows the 'Generate Exam' page with the heading 'Exam Description'. It contains several form fields: 'Exam Title' (with 'IPL QUIZ' entered), 'Time of Exam' (with '02:30 PM' and a clock icon), 'Date of Exam' (with '03/09/2021' and a calendar icon), 'Duration of Exam (in minutes):' (with '5' entered), and 'Exam Year:' (with '2' entered). At the bottom are two buttons: 'GO AHEAD' (blue) and 'CANCEL' (dark grey).

5. If the title entered is already used earlier, the exam is not created and an error message is displayed.

localhost / 127.0.0.1 / examinatio: x Generate Exam x +

http://localhost/wd%20project/gen-exam.php

## Exam Description

An exam with the same title already exists. Please try giving a different exam title.

Exam Title:

Time of Exam:

Date of Exam

Duration of Exam (in minutes):

Exam Year:

[GO AHEAD](#)

[CANCEL](#)

Activate Windows  
Go to Settings to activate Windows.

6. On successful exam creation, the instructor is asked to enter the questions. Instructor can add more questions by clicking the 'ADD' button. When instructor is done writing the last question, he has to click 'PREVIEW EXAM' in order to have a look at all the questions entered and also update/delete them.

localhost / 127.0.0.1 / examinatio: x Add Question x +

http://localhost/wd%20project/add-ques.php

Exam Title:QUIZ Exam Time:14:30 Exam Date:2021-03-09 Exam Duration:5 Exam Year:2

Write Question:

Option A:

Option B:

Option C:

Option D:

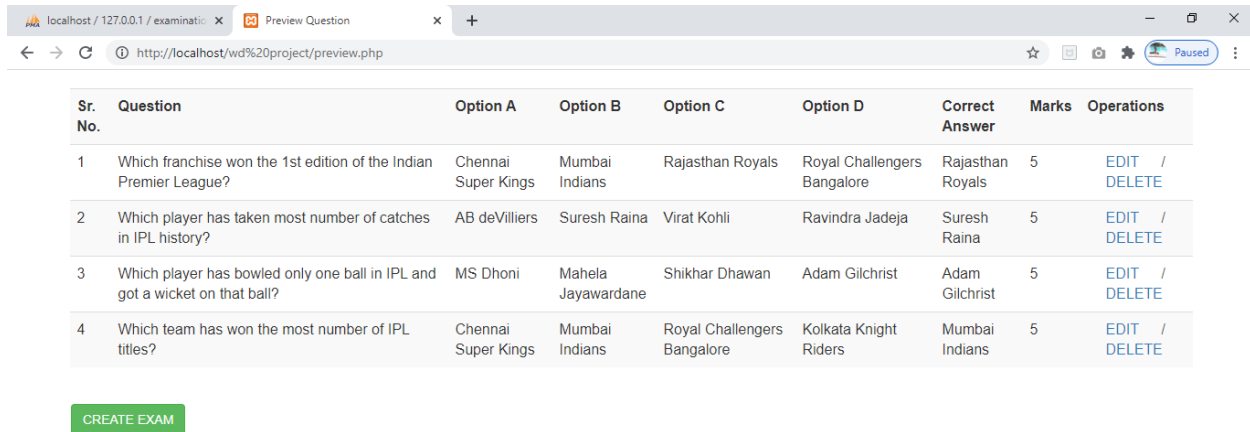
Correct Answer

Marks for correct answer

[ADD](#) [PREVIEW EXAM](#)



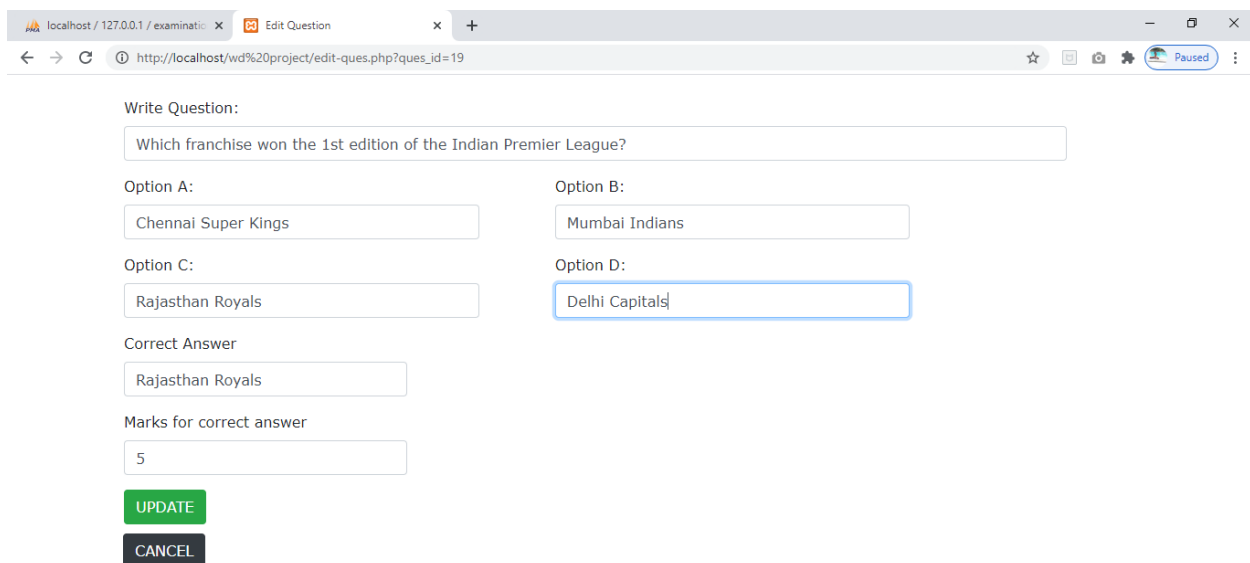
7. This is the preview of all the entered questions which can further be updated, deleted or kept as it is.



| Sr. No. | Question  | Option A            | Option B           | Option C                    | Option D                    | Correct Answer   | Marks | Operations                                    |
|---------|---|---------------------|--------------------|-----------------------------|-----------------------------|------------------|-------|---|
| 1       | Which franchise won the 1st edition of the Indian Premier League?           | Chennai Super Kings | Mumbai Indians     | Rajasthan Royals            | Royal Challengers Bangalore | Rajasthan Royals | 5     | <a href="#">EDIT</a> / <a href="#">DELETE</a> |
| 2       | Which player has taken most number of catches in IPL history?               | AB deVilliers       | Suresh Raina       | Virat Kohli                 | Ravindra Jadeja             | Suresh Raina     | 5     | <a href="#">EDIT</a> / <a href="#">DELETE</a> |
| 3       | Which player has bowled only one ball in IPL and got a wicket on that ball? | MS Dhoni            | Mahela Jayawardane | Shikhar Dhawan              | Adam Gilchrist              | Adam Gilchrist   | 5     | <a href="#">EDIT</a> / <a href="#">DELETE</a> |
| 4       | Which team has won the most number of IPL titles?                           | Chennai Super Kings | Mumbai Indians     | Royal Challengers Bangalore | Kolkata Knight Riders       | Mumbai Indians   | 5     | <a href="#">EDIT</a> / <a href="#">DELETE</a> |

[CREATE EXAM](#)

8. Instructor can edit a particular question by clicking the 'EDIT' button in the respective row. Editing a question is just submitting a form with the updated information.



Write Question:

Which franchise won the 1st edition of the Indian Premier League?

Option A:

Option B:

Option C:

Option D:

Correct Answer:

Marks for correct answer:

[UPDATE](#)

[CANCEL](#)

9. When a question is updated successfully, the success message is displayed as shown below.

Record updated

| Sr. No. | Question  | Option A            | Option B           | Option C                    | Option D              | Correct Answer   | Marks | Operations    |
|---------|---|---------------------|--------------------|-----------------------------|-----------------------|------------------|-------|---------------|
| 1       | Which franchise won the 1st edition of the Indian Premier League?           | Chennai Super Kings | Mumbai Indians     | Rajasthan Royals            | Delhi Capitals        | Rajasthan Royals | 5     | EDIT / DELETE |
| 2       | Which player has taken most number of catches in IPL history?               | AB deVilliers       | Suresh Raina       | Virat Kohli                 | Ravindra Jadeja       | Suresh Raina     | 5     | EDIT / DELETE |
| 3       | Which player has bowled only one ball in IPL and got a wicket on that ball? | MS Dhoni            | Mahela Jayawardane | Shikhar Dhawan              | Adam Gilchrist        | Adam Gilchrist   | 5     | EDIT / DELETE |
| 4       | Which team has won the most number of IPL titles?                           | Chennai Super Kings | Mumbai Indians     | Royal Challengers Bangalore | Kolkata Knight Riders | Mumbai Indians   | 5     | EDIT / DELETE |

CREATE EXAM

10. Instructor can delete a particular question by clicking the 'DELETE' button in the respective row. Before deleting the question, confirmation is taken from the instructor.

Confirm Deleting: Which player has bowled only one ball in IPL and got a wicket on that ball?

DELETE

CANCEL

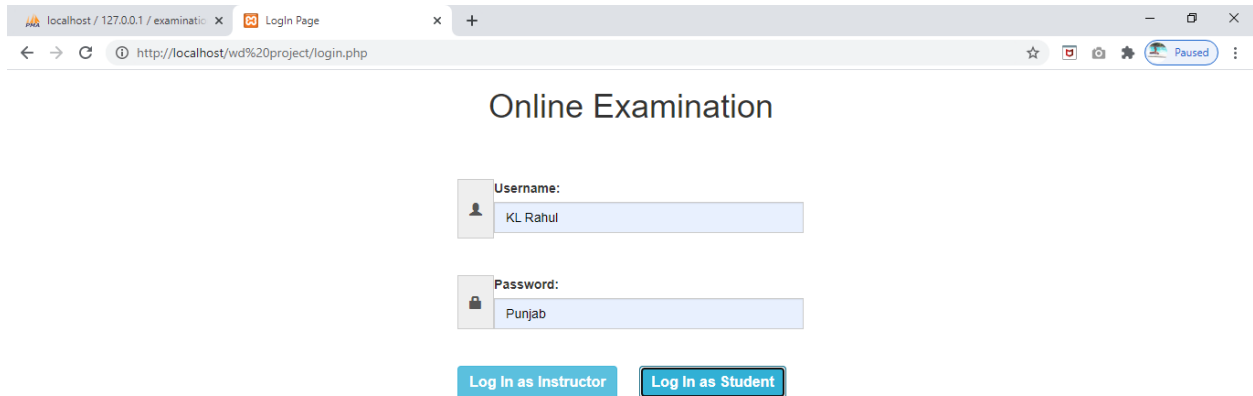
11. When a question is deleted successfully, the success message is displayed as shown below.

Record deleted

| Sr. No. | Question  | Option A            | Option B       | Option C                    | Option D              | Correct Answer   | Marks | Operations    |
|---------|---|---------------------|----------------|-----------------------------|-----------------------|------------------|-------|---------------|
| 1       | Which franchise won the 1st edition of the Indian Premier League? | Chennai Super Kings | Mumbai Indians | Rajasthan Royals            | Delhi Capitals        | Rajasthan Royals | 5     | EDIT / DELETE |
| 2       | Which player has taken most number of catches in IPL history?     | AB deVilliers       | Suresh Raina   | Virat Kohli                 | Ravindra Jadeja       | Suresh Raina     | 5     | EDIT / DELETE |
| 3       | Which team has won the most number of IPL titles?                 | Chennai Super Kings | Mumbai Indians | Royal Challengers Bangalore | Kolkata Knight Riders | Mumbai Indians   | 5     | EDIT / DELETE |

CREATE EXAM

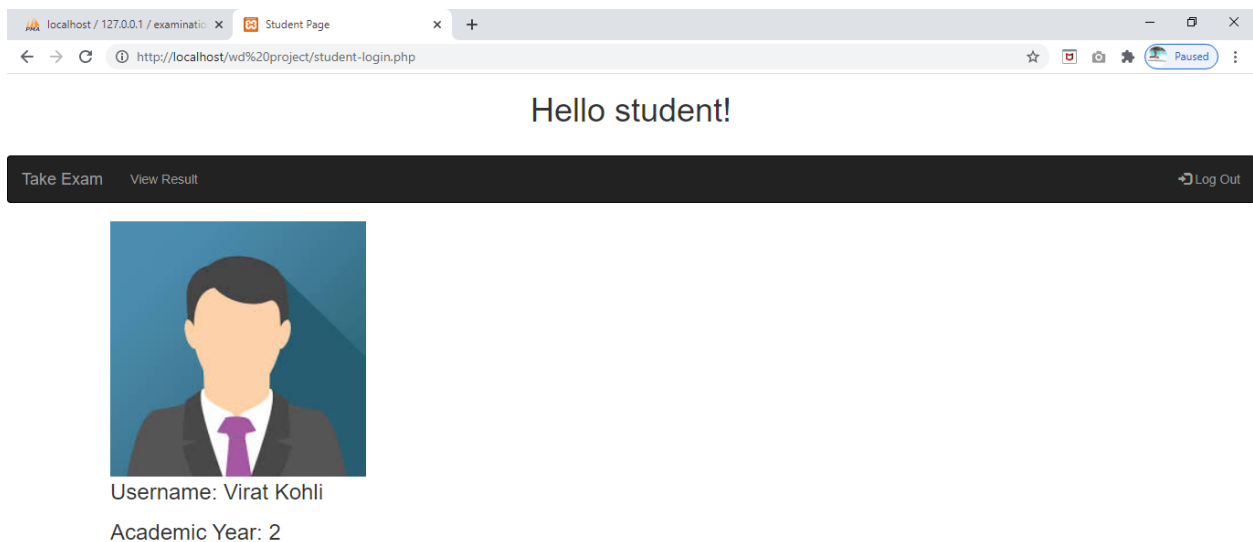
12. Below is an image displaying student log-in with correct username and password.



The screenshot shows a web browser window with the address bar displaying 'http://localhost/wd%20project/login.php'. The page title is 'Online Examination'. It features two input fields: 'Username:' with the value 'KL Rahul' and 'Password:' with the value 'Punjab'. Below these fields are two buttons: 'Log In as Instructor' and 'Log In as Student'.

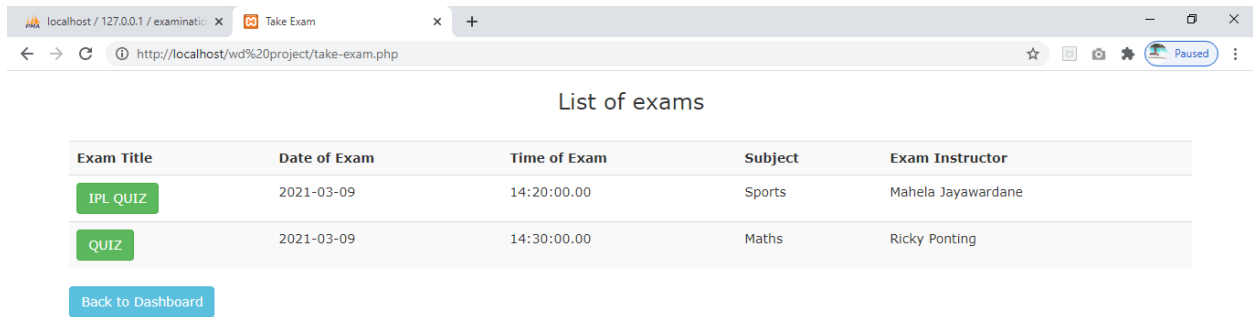
13. This is the student's dashboard consisting of three different options:-

- i. Take Exam
- ii. View Result
- iii. Logout

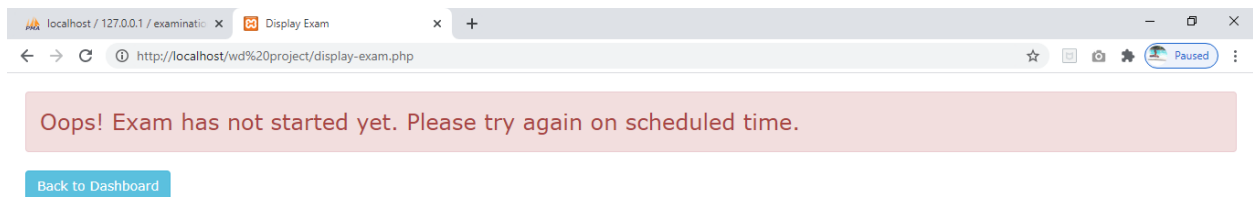


The screenshot shows a web browser window with the address bar displaying 'http://localhost/wd%20project/student-login.php'. The page title is 'Student Page'. The main content area displays 'Hello student!'. Below this is a dark navigation bar with three options: 'Take Exam', 'View Result', and 'Log Out'. A profile card is shown below the navigation bar, featuring a placeholder image of a person in a suit and tie. The profile card displays the text 'Username: Virat Kohli' and 'Academic Year: 2'.

14. When student clicks on 'Take Exam' option, he is displayed the list of all the exams available to be taken.



15. If the student opts to give an exam that has not yet started, then he is displayed an error message as shown below.



16. The entire exam is displayed as shown below. The user needs to submit the exam by clicking the 'SUBMIT' button. In case he doesn't submit before the exam ends, it gets submitted automatically.

## QUIZ

Exam duration: 5 minutes

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1. Which franchise won the 1st edition of the Indian Premier League? (Marks:5)

- ☐ Chennai Super Kings
- ☐ Mumbai Indians
- ☐ Rajasthan Royals
- ☐ Delhi Capitals

2. Which player has taken most number of catches in IPL history? (Marks:5)

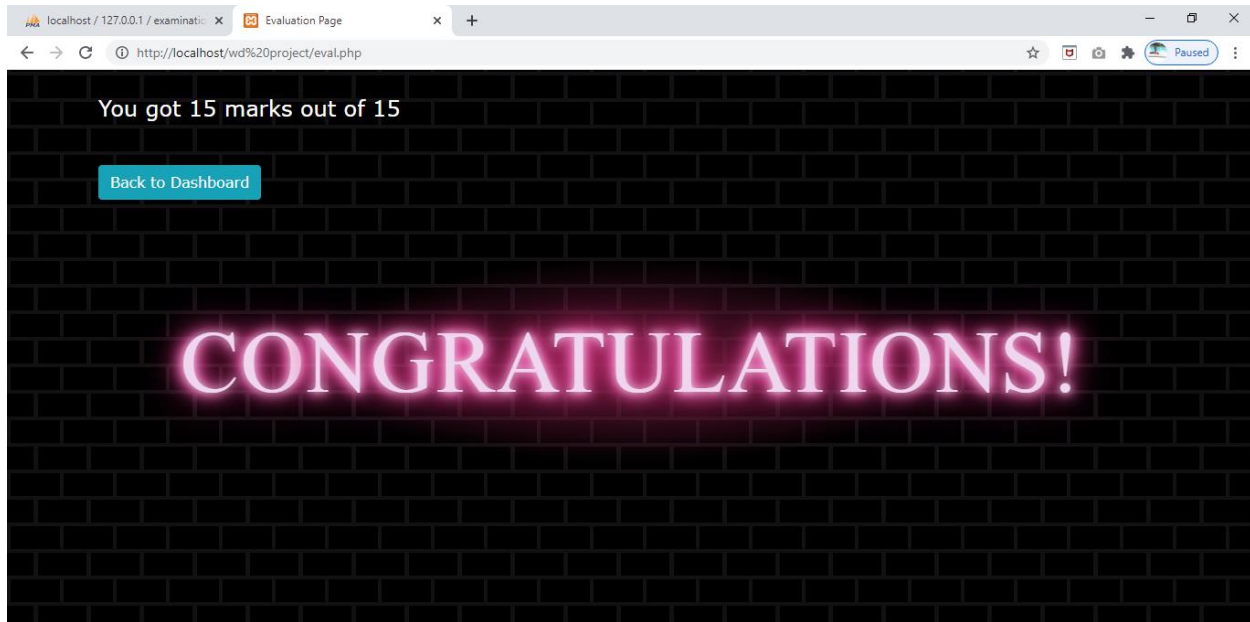
- ☐ AB deVilliers
- ☐ Suresh Raina
- ☐ Virat Kohli
- ☐ Ravindra Jadeja

3. Which team has won the most number of IPL titles? (Marks:5)

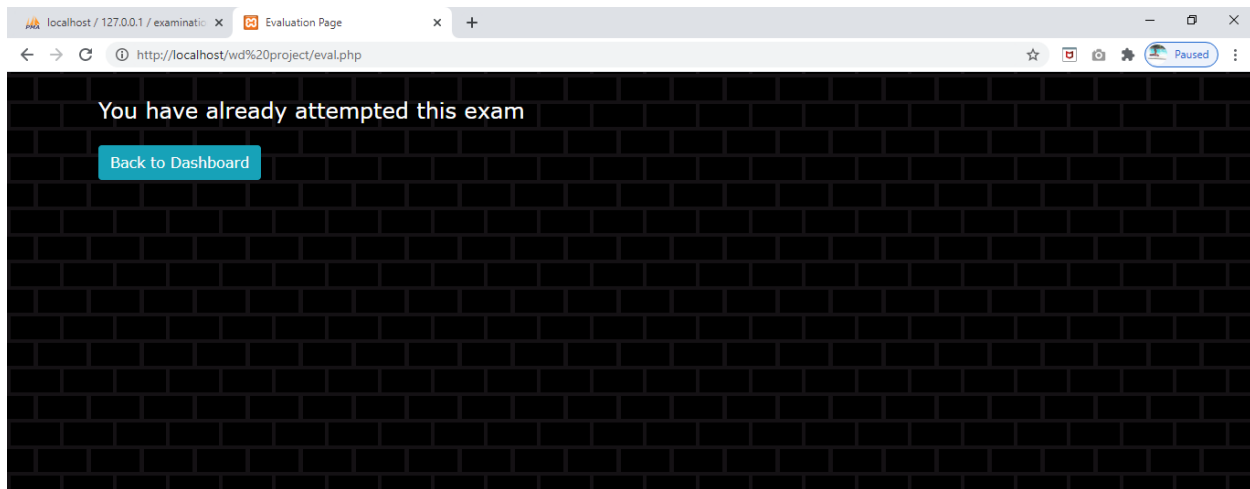
- ☐ Chennai Super Kings
- ☐ Mumbai Indians
- ☐ Royal Challengers Bangalore
- ☐ Kolkata Knight Riders

SUBMIT EXAM

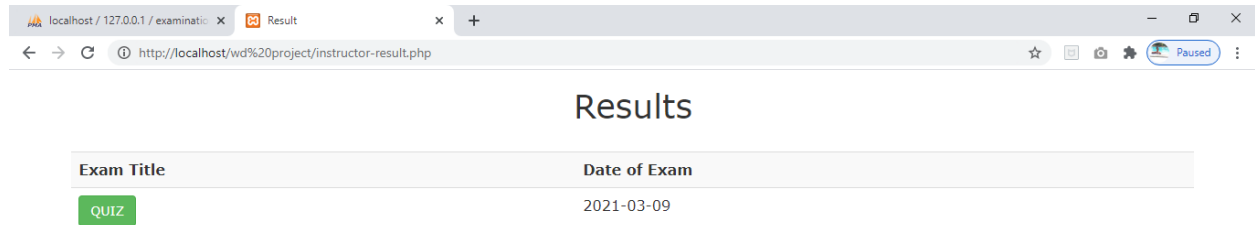
17. If the student is skillful enough to get all the answers correct, he will be displayed the marks with a 'CONGRATULATIONS' message, else only the marks will be displayed.



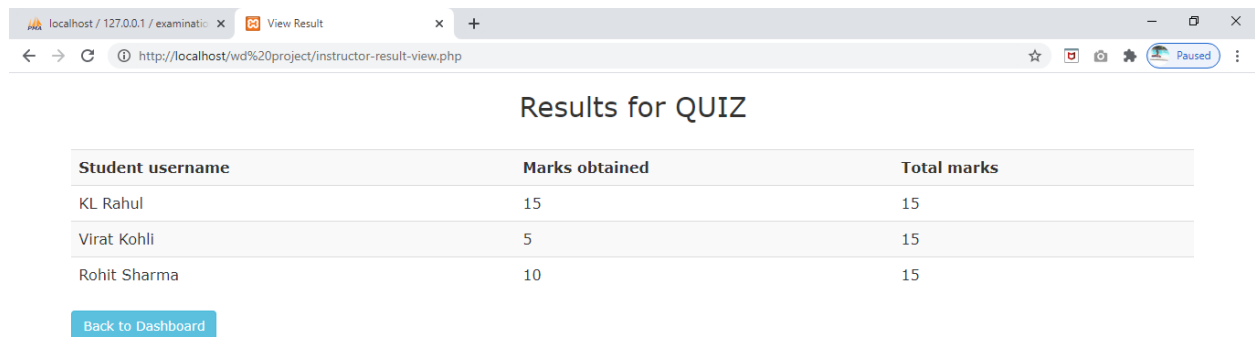
18. If a student tries to submit the exam for the second time, following message is displayed stopping them from duplicate submission.



19. When an instructor wants to see the marks of students who have given an exam created by him/her, then they can click 'View Results' on the dashboard and the following having list of exams is created.



20. The marks of all the students who appeared for the exam selected by the instructor are displayed as shown in the image below.



21. If a student wants to see the results of the exams he has attempted, then he/she can simply click on 'View Results' on the dashboard and the marks will displayed as shown below.

