



QUIZ APP REPORT

- Github link: <https://github.com/MyCodeWheel/Quiz-App.git>
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1 Introduction:

Quiz Application project is a desktop application developed using C# Language. The Project is based on a concept of taking a quiz on different topics. There are different questions on different topics. Each of the given questions is multiple choice questions. The system does not display the correct answer at the same time, each question carries 5 marks. Only at the last, the user can know his/her total scores. The questions are provided randomly.

The project use database to store the questions and their answers and then they can be used for the quiz. User should login or sign up to access the quiz. User login details are stored in database. User need username or password to attempt the quiz.

1.1 Scope of the project:

The purpose of the project to play quiz game. It helps the player to understand the topic discuss in the game. The knowledge of the player will rise after playing the game.

2 Requirements:

2.1 Introduction:

This section provides a functional overview of the system. This section is divided into two sub section again.

➤ Functional Requirements

➤ Nonfunctional Requirements

2.2 Functional Requirements:

What a software system should do is described or explained in functional requirements section.

2.2.1 For Admin:

➤ Add new Question:

Admin can add new questions in Data Base. Specific id is assigned to each question. Questions and ID should be unique.

➤ Delete Questions:

Admin could remove questions from Data Base. Specific id is used to retrieve data of each question. Admin could cancel the operation any time.

➤ Update Questions:

Admin could update questions in Data Base. Specific id is used to retrieve data of each question. Admin could cancel the operation any time. Admin could not be able to update ID.

➤ View List of Question:

Admin can view the list of questions with their category, option and correct answers.

2.2.2 For Player:

➤ Play Game:

Player can play the game after pressing the Play button. Each question appears for 15 second. If user answer the question in given time, new question will appear, and time will reset. Each correct answer will increase the total score by 5.

➤ Set Category for Questions:

Player can select the category for the question. Currently there are 2 categories either cricket or football. By default cricket category is selected.

➤ View Previous Results:

Player can view the result of previous played games with date and time of that game.

2.3 Non-Functional requirements:

How a software system should do is described or explained in nonfunctional requirements section

2.3.1 Usability:

It's a system which is easy to use, and this system will provide a positive user experience. So basically, this system is user interface intuitive.

2.3.2 Availability:

Player can only access the after signup with their username of password. Username should be unique for every player.

2.3.3 Implementation:

Project will implement in C# programming language. For Data Base My SQL 8.0.20 is used.

2.3.4 Security:

Unauthorized player could not able to access the game. Player need to signup themselves for play the game

All player must be uniquely identified. This could be done by giving them specific username and password for every individual that would authenticate and authorize the user access to the system.

2.4 Interface Requirements:

2.4.1 User Interface:

- Login screen
- Signup screen
- Home screen
- Add question screen
- Remove and update question screen
- View questions list screen
- Play game screen
- View result screen
- Set category screen.

2.4.2 Hardware Interface:

- Minimum 20GB hard disk
- Core 2 or equivalent system
- Ram 3 GB or equivalent
- Network and internet connection

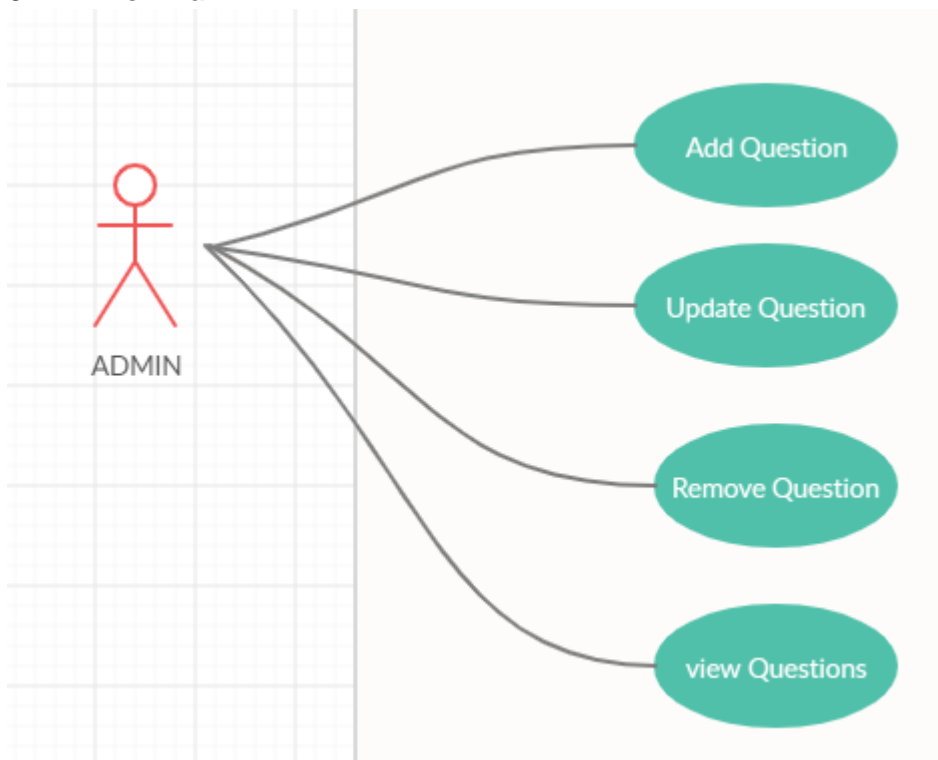
2.4.3 Software Interface:

- **Operating System:**
 - Window 8 or equivalent
 - MACOS
 - Linux
 - Visual Studio 2019 or equivalent
 - MySQL 8.0.20 or equivalent
 - **Language:**
 - C#
 - MySQL
-

3 System Models:

3.1 Use Case Diagram:

3.1.1 For Admin:



Quiz App: Admin (Add new Question)

Actor:	Admin
Description:	Admin should be able to add new questions.
Stimulus:	Admin click on add new question button after login with their username or password.
Response:	New form will appear for add new question for quiz.

Quiz App: Admin (Update Question)

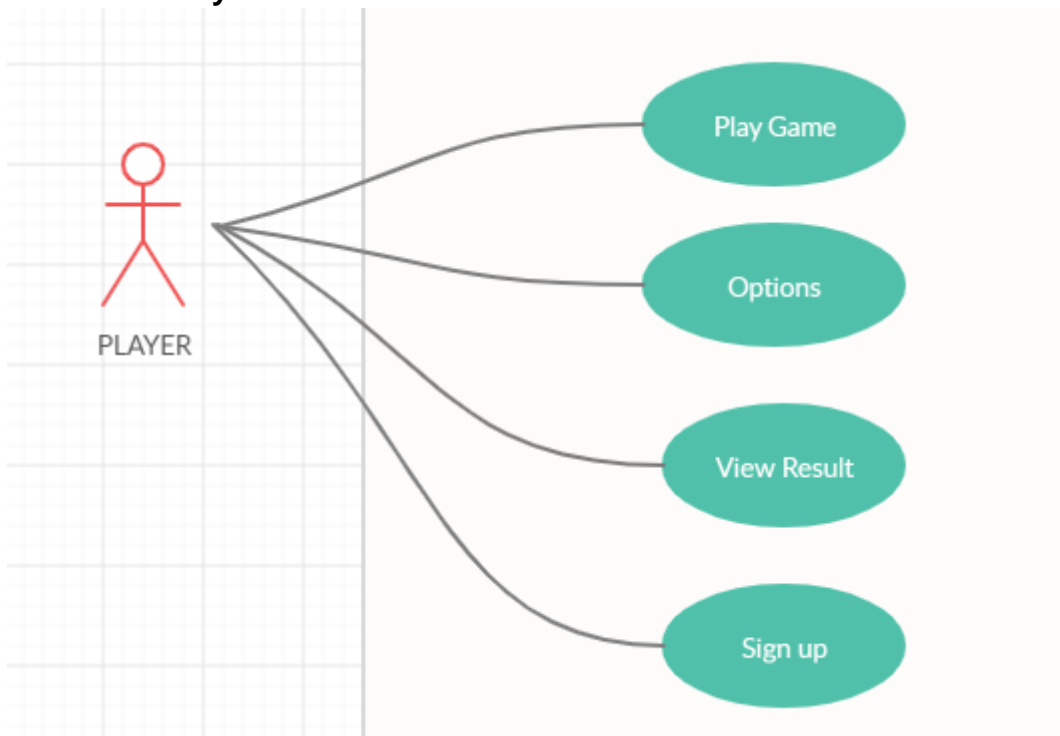
Actor:	Admin
Description:	Admin should be able to update questions in data base
Stimulus:	Admin click on update question button after login with their username or password.
Response:	New form will appear for update question in data base.

Quiz App: Admin (Remove Question)

Actor:	Admin
Description:	Admin should be able to remove questions from data base
Stimulus:	Admin click on remove question button after login with their username or password.
Response:	New form will appear for remove question from data base.

Quiz App: Admin (View Questions)	
Actor:	Admin
Description:	Admin should be able to view the list of question added in data base.
Stimulus:	Admin click on view question button after login with their username or password.
Response:	New form will appear with all the questions from data base.

3.1.2 For Player:



Quiz App: Player (Play Game)	
Actor:	Player
Description:	Admin should be able to play game.
Stimulus:	player click on Play game button after login with their username or password.
Response:	New form will appear with question and options for specific time.

Quiz App: Player (Options)	
Actor:	Player
Description:	Player should be able to select the questions category.
Stimulus:	Player click on option button after login with their username or password.
Response:	New form will appear in which player can set category for questions.

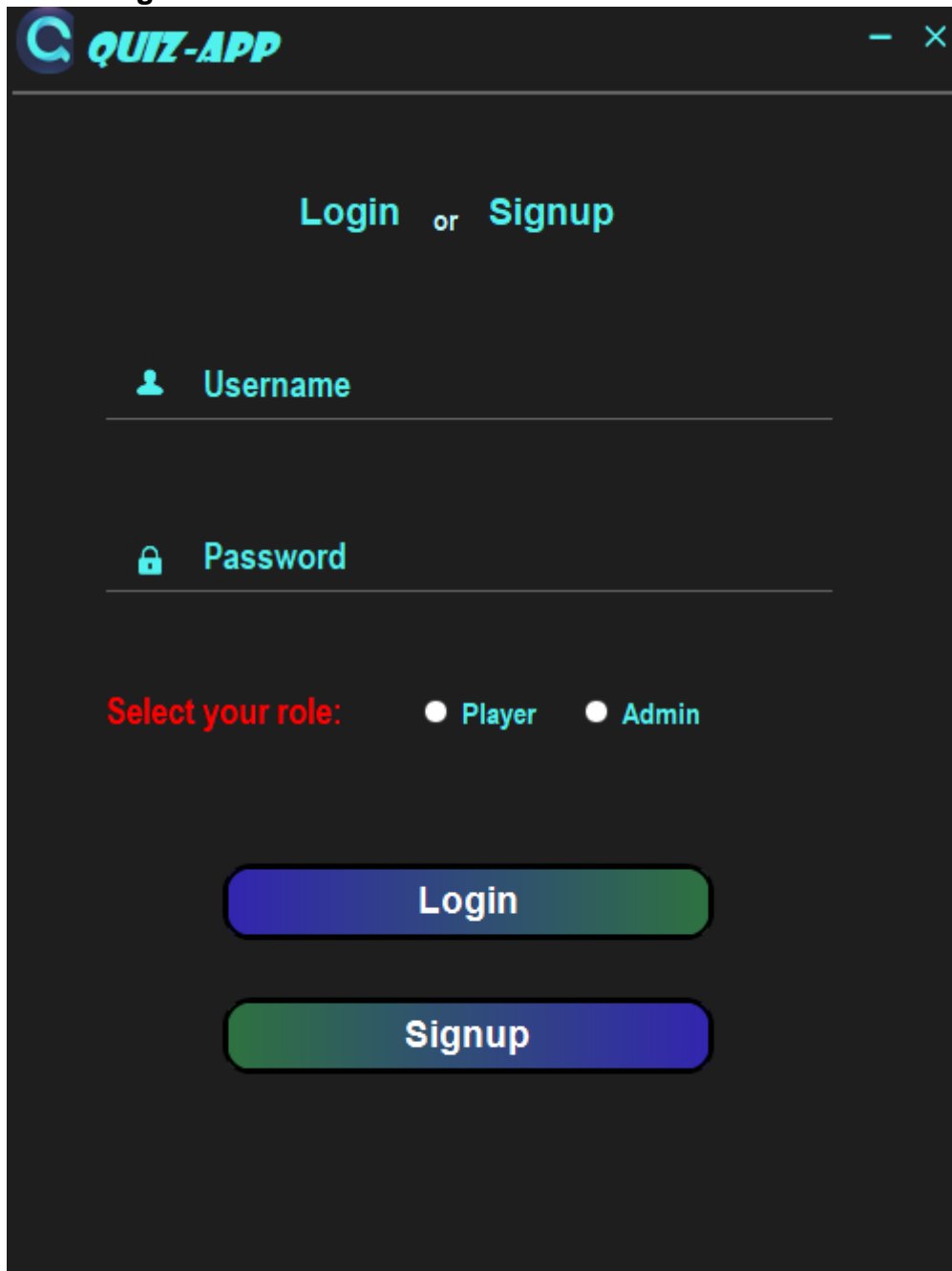
Quiz App: Player (View Result)	
Actor:	Player
Description:	Player should be able to view the result of previous games
Stimulus:	Player click on view result button after login with their username or password.
Response:	New form will appear with result of previous games.

Quiz App: Player (Signup)	
Actor:	Player
Description:	Player should be able register themselves.
Stimulus:	Player click on signup button after running the application.
Response:	New form will appear for register the player.

4 Design:

4.1 For Admin:

4.1.1 Login Screen:



The image shows a login and signup screen for a quiz application. The interface is dark-themed with a black background. At the top left, there is a logo consisting of a blue circle with a white 'Q' inside, followed by the text 'QUIZ-APP' in a bold, blue, sans-serif font. To the right of the logo are standard window control buttons: a minus sign, a close 'X', and a maximize button. The main heading 'Login or Signup' is centered in a light blue, sans-serif font. Below this, there are two input fields. The first is labeled 'Username' with a light blue user icon to its left. The second is labeled 'Password' with a light blue padlock icon to its left. Both labels are in a light blue, sans-serif font. Below the input fields, there is a section titled 'Select your role:' in a red, sans-serif font. To the right of this title are two radio buttons. The first radio button is selected and is followed by the text 'Player' in a light blue, sans-serif font. The second radio button is not selected and is followed by the text 'Admin' in a light blue, sans-serif font. At the bottom, there are two large, rounded rectangular buttons. The top button is labeled 'Login' in a white, sans-serif font and has a blue-to-green gradient. The bottom button is labeled 'Signup' in a white, sans-serif font and has a green-to-blue gradient.

QUIZ-APP

Login or Signup

Username

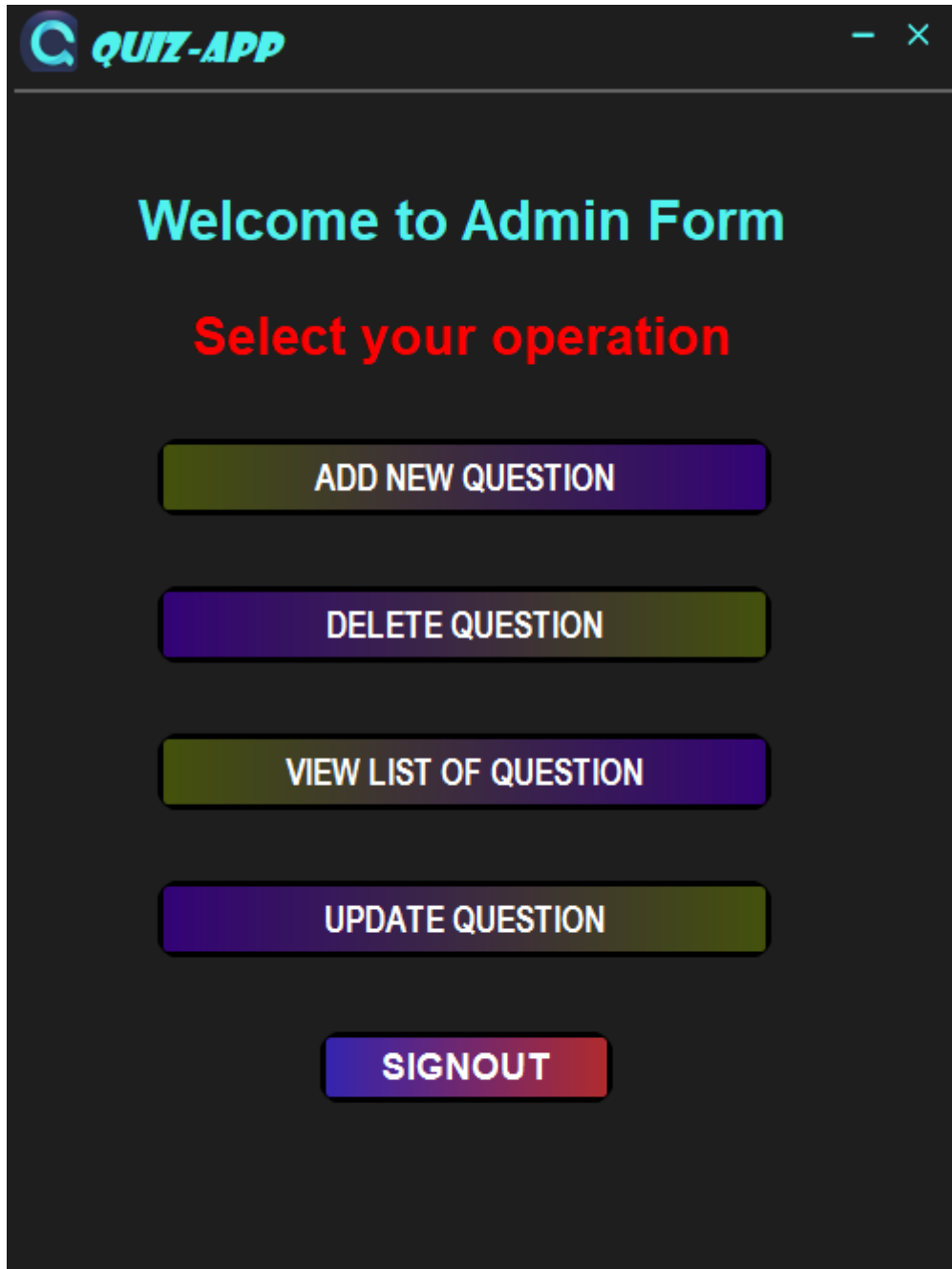
Password

Select your role: ☒ **Player** ☐ **Admin**

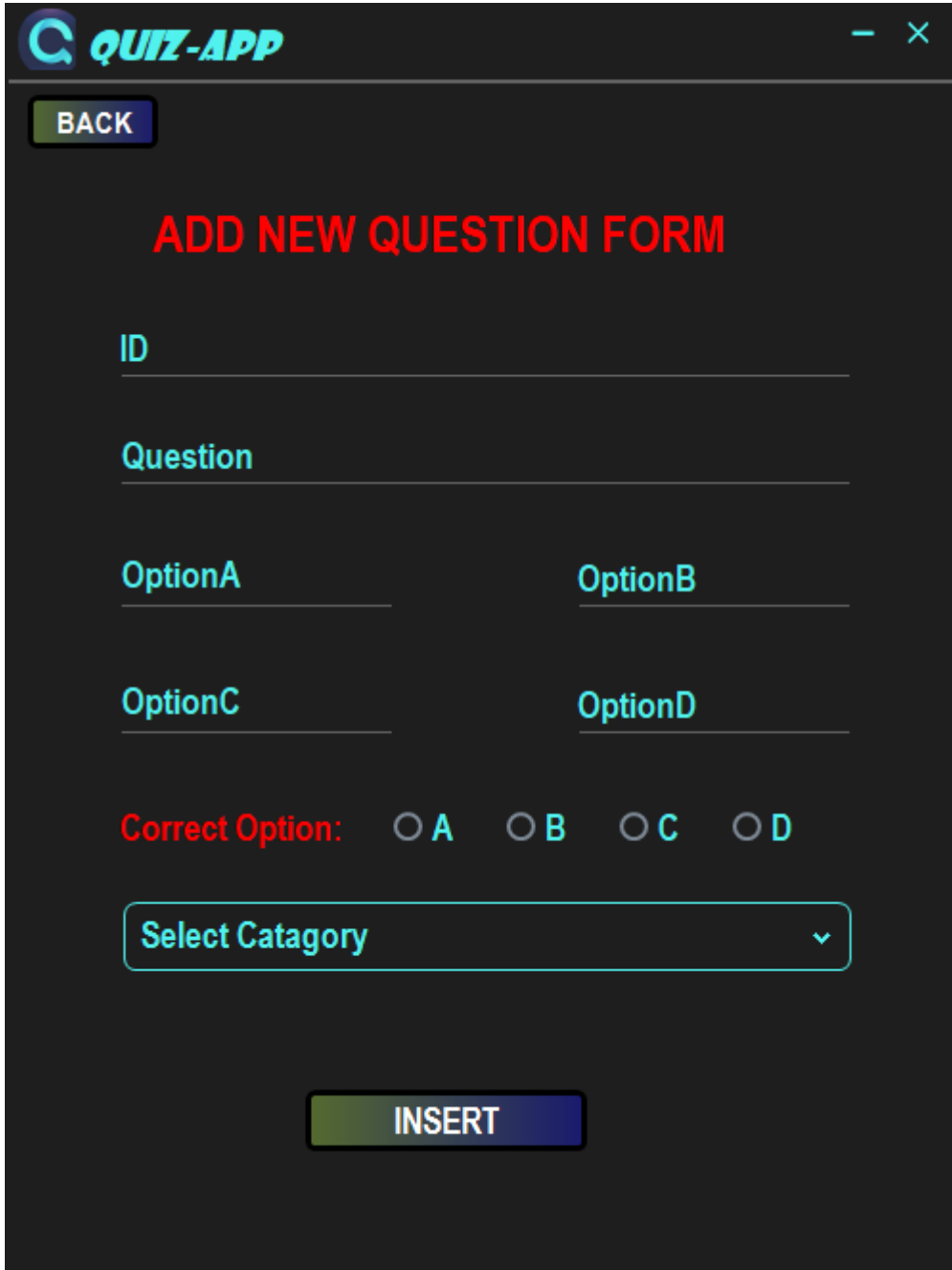
Login

Signup

4.1.2 Home Screen:



4.1.3 Add New Question Screen:



QUIZ-APP

BACK

ADD NEW QUESTION FORM

ID

Question

OptionA OptionB

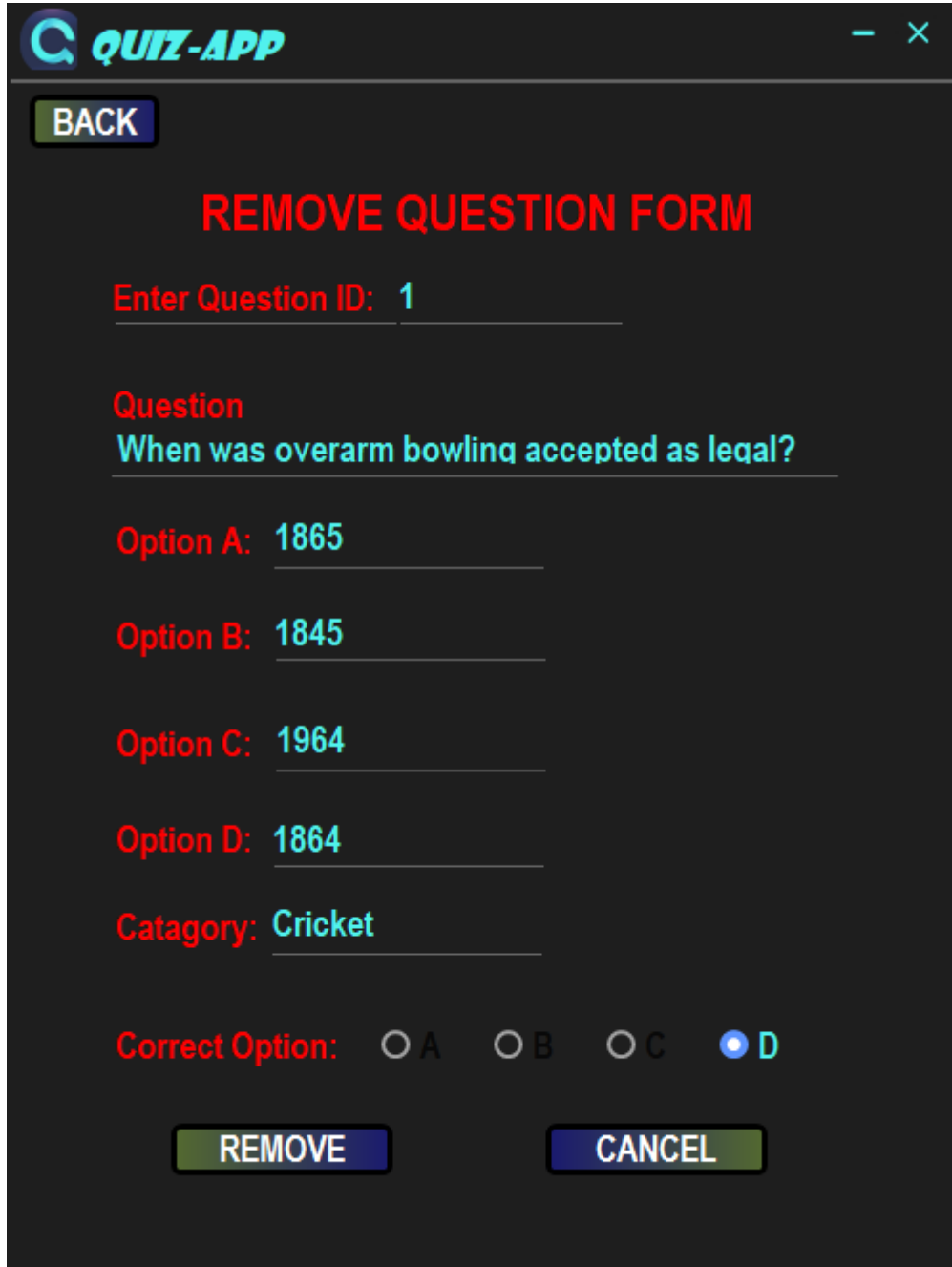
OptionC OptionD

Correct Option: ☐ A ☐ B ☐ C ☐ D

Select Catagory

INSERT

4.1.4 Remove Question Screen:



The screenshot shows a mobile application window titled "QUIZ-APP" with a dark background. At the top left is a "BACK" button. The main heading is "REMOVE QUESTION FORM" in red. Below it, the "Enter Question ID:" field contains the value "1". The "Question" field contains the text "When was overarm bowling accepted as legal?". There are four "Option" fields: "Option A: 1865", "Option B: 1845", "Option C: 1964", and "Option D: 1864". The "Category:" field contains the text "Cricket". At the bottom, the "Correct Option:" section shows four radio buttons labeled A, B, C, and D, with D being selected. At the very bottom are two buttons: "REMOVE" and "CANCEL".

QUIZ-APP

BACK

REMOVE QUESTION FORM

Enter Question ID: 1

Question
When was overarm bowling accepted as legal?

Option A: 1865

Option B: 1845

Option C: 1964

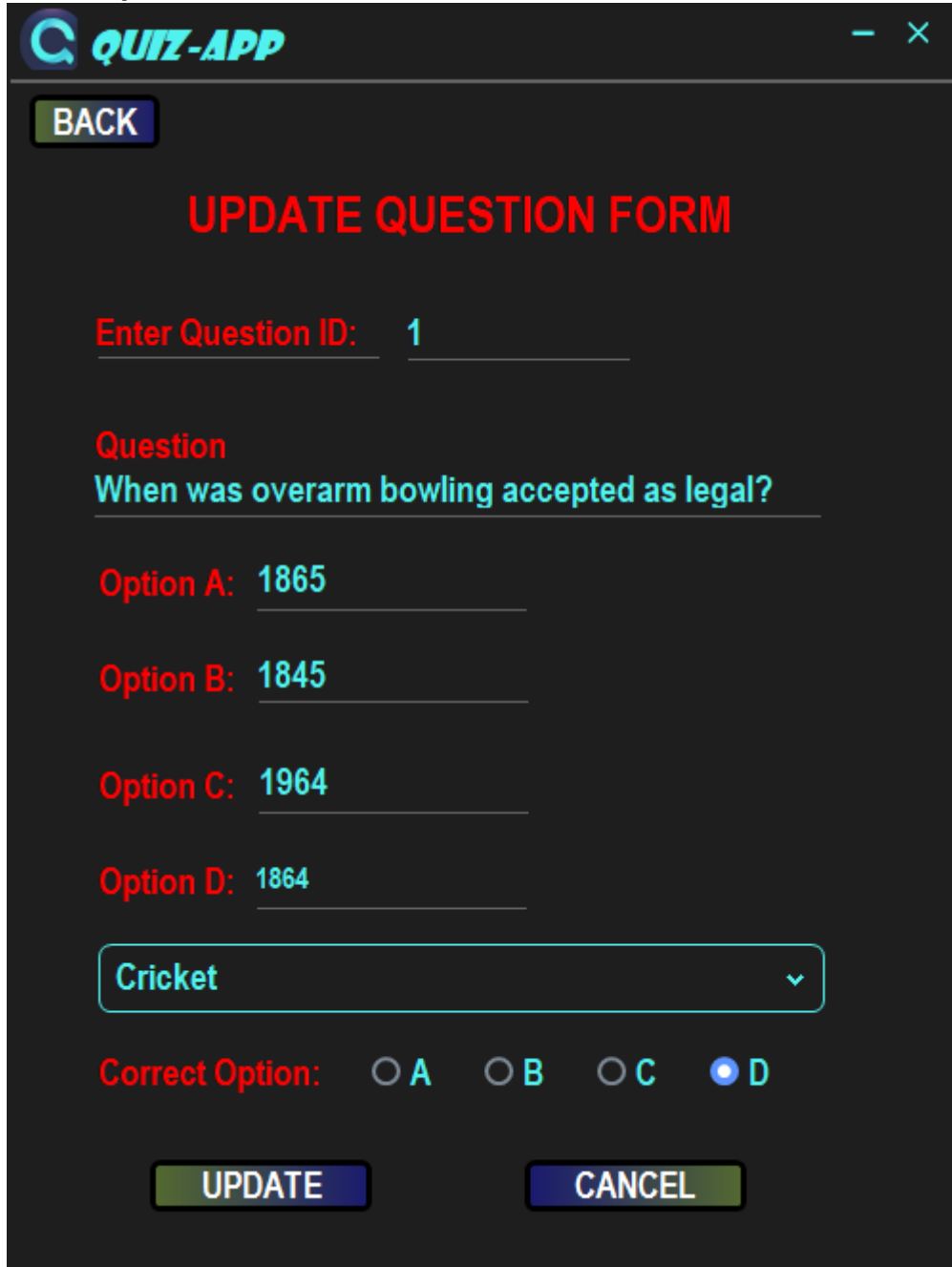
Option D: 1864

Category: Cricket

Correct Option: ☐ A ☐ B ☐ C ☒ D

REMOVE CANCEL

4.1.5 Update Question Screen:



The screenshot shows the 'UPDATE QUESTION FORM' screen of a quiz application. At the top left is the 'QUIZ-APP' logo, and at the top right are standard window controls (minimize, maximize, close). A 'BACK' button is located in the top left corner of the app's content area. The main title 'UPDATE QUESTION FORM' is centered in large red letters. Below it, the 'Enter Question ID:' field contains the number '1'. The 'Question' field contains the text 'When was overarm bowling accepted as legal?'. There are four option fields: 'Option A: 1865', 'Option B: 1845', 'Option C: 1964', and 'Option D: 1864'. A dropdown menu is set to 'Cricket'. Under 'Correct Option:', there are four radio buttons labeled A, B, C, and D, with D being the selected option. At the bottom are two buttons: 'UPDATE' and 'CANCEL'.

QUIZ-APP

BACK

UPDATE QUESTION FORM

Enter Question ID: 1

Question
When was overarm bowling accepted as legal?

Option A: 1865

Option B: 1845

Option C: 1964

Option D: 1864

Cricket ▼

Correct Option: ☐ A ☐ B ☐ C ☒ D

UPDATE **CANCEL**

4.1.6 View list of Questions Screen:

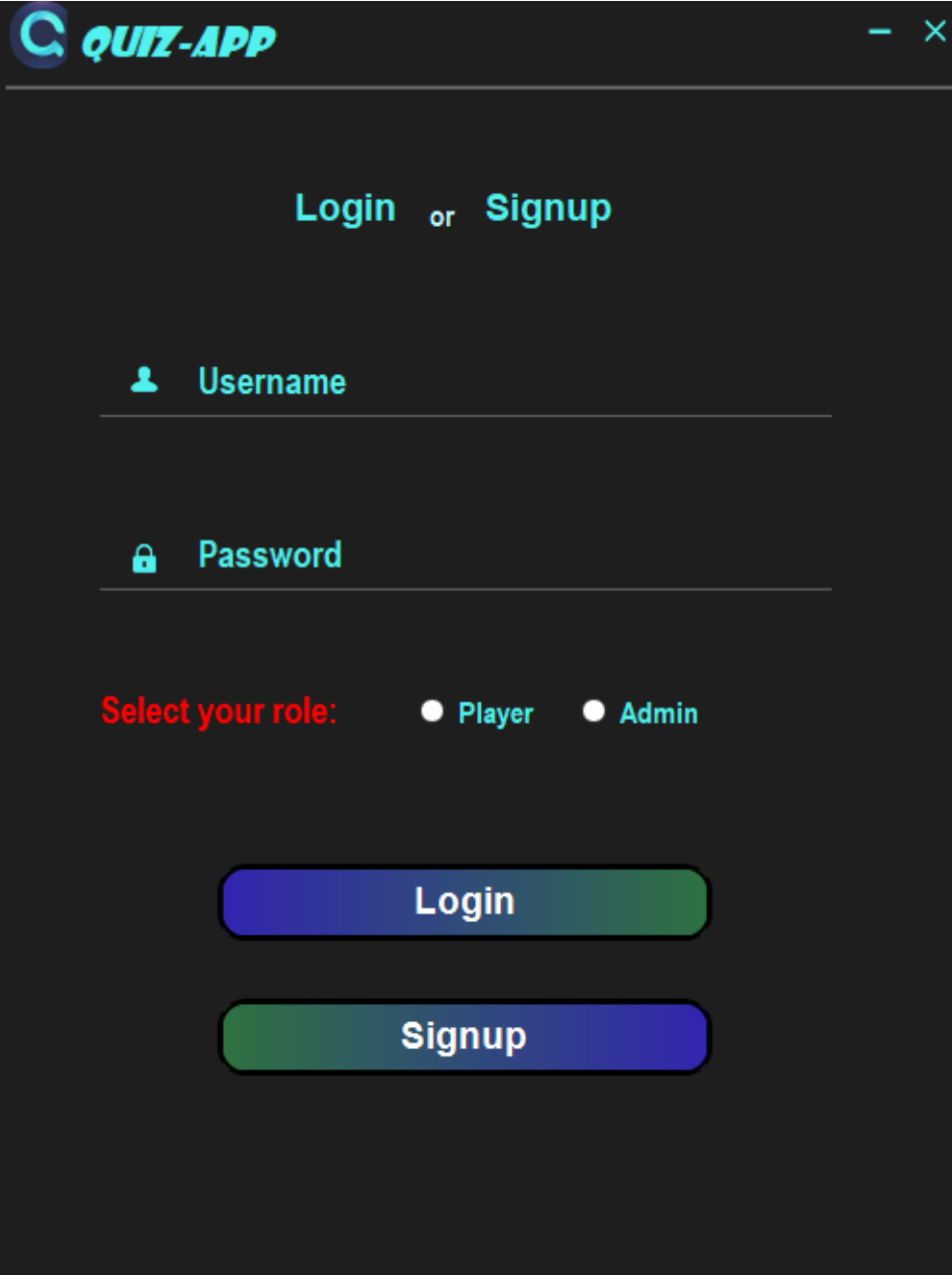


LIST OF QUESTIONS

ID	Question	OptionA	OptionB	OptionC	OptionD	Answer	Catagory
1	When was overarm bowling accepted as legal?	1865	1845	1964	1864	1864	Cricket
2	How many times Chennai Super Kings won the IPL?	4	2	3	1	3	Cricket
3	Who is "Two metre Peter"?	Peter Fulton	Younis Khan	Joe Root	ABD	Peter Fulton	Cricket
4	The first Asia Cup was held in?	1999	1984	1980	1995	1984	Cricket
5	Who was the captain of Pakistan in the 1996 world cup?	Wasim	Waqar	Imran	Inziamam	Wasim	Cricket
6	The World Cup was first held in Pakistan in ?	1992	1987	1996	1983	1987	Cricket
7	Which country did Pakistan tour in 1999-2000?	India	England	Australia	China	Australia	Cricket
8	The Youngest Player to Take 10 wickets in Test Match?	Imran Khan	Waqar Younis	Wasim Akram	Aqib Javed	Wasim Akram	Cricket
9	Which player is known as "Street Fighter"?	Imran Khan	Javed Miandad	Wasim Akram	Younis Khan	Javed Miandad	Cricket
10	Javed Miandad retired as coach of Pakistan in?	2000	2003	2001	1998	2001	Cricket
11	2019 Cricket world cup will be held in ?	India	Australia	England	Sri Lanka	England	Cricket
12	What is the height of cricket wickets?	27 inches	29 inches	28 inches	25 inches	28 inches	Cricket
13	Who has lead to Islamabad United as a Captain in PSL-4?	Darren samy	Sarfaraz Ahmed	Shoaib malik	M. Sami	M. Sami	Cricket

4.2 For Player:

4.2.1 Login Screen:



The image shows a login screen for a quiz application. At the top left is the logo, which consists of a blue circle with a white 'Q' and the text 'QUIZ-APP' in blue. To the right of the logo are window control icons: a minus sign and a close 'X' symbol. The main heading 'Login or Signup' is centered in blue. Below it are two input fields: 'Username' with a person icon and 'Password' with a lock icon. Under the password field is a red label 'Select your role:' followed by two radio buttons. The first radio button is selected and is labeled 'Player' in blue. The second radio button is not selected and is labeled 'Admin' in blue. At the bottom are two large, rounded buttons: 'Login' with a blue-to-green gradient and 'Signup' with a green-to-blue gradient.

QUIZ-APP

Login or Signup

Username

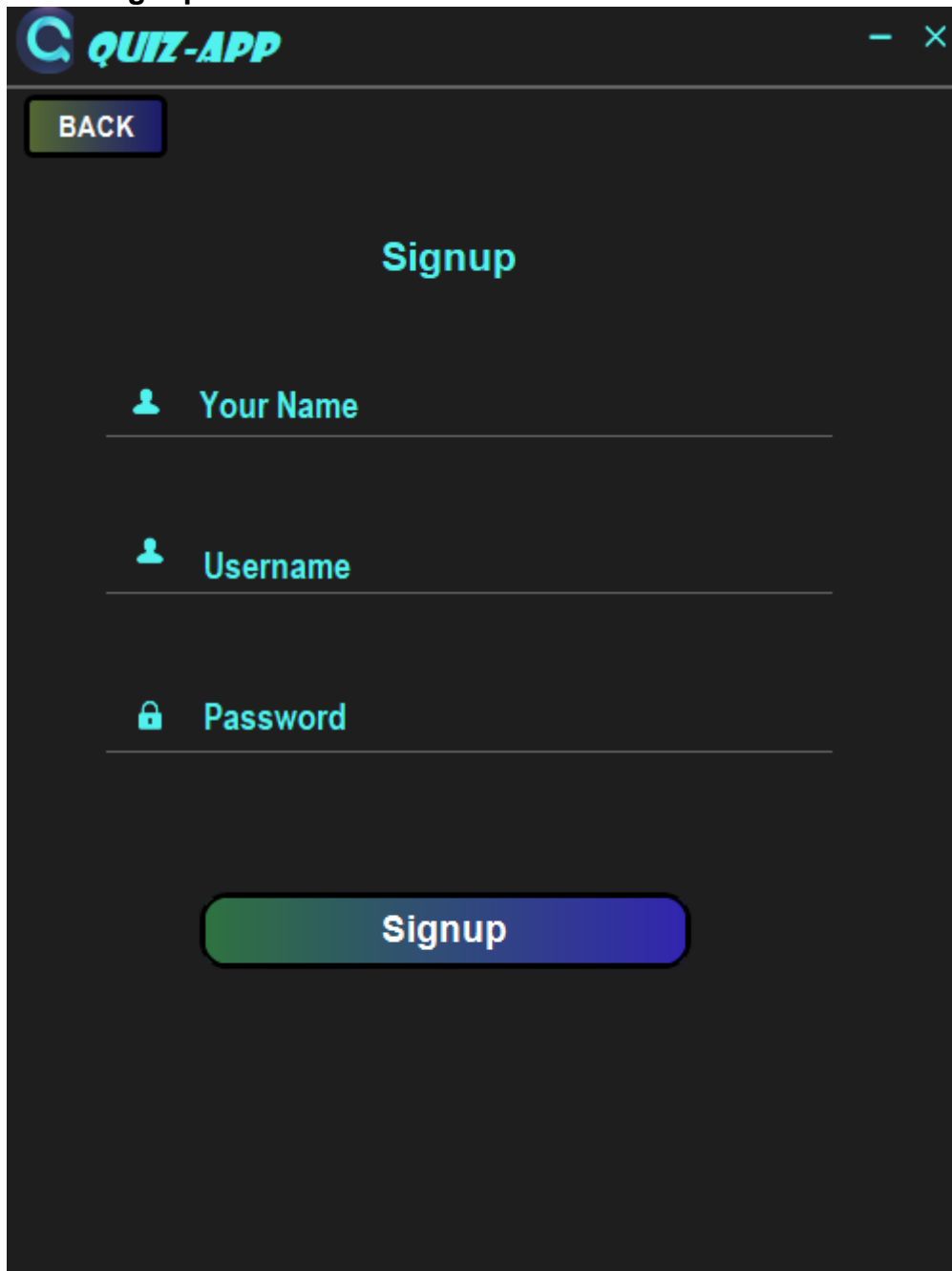
Password

Select your role: ☒ **Player** ☐ **Admin**

Login

Signup

4.2.2 Signup Screen:





The image shows a mobile application window titled "QUIZ-APP" with a blue icon. The background is dark gray. At the top left is a "BACK" button with a white arrow. In the center is the word "Signup" in white. Below it are three input fields, each with a white icon on the left and a white underline: "Your Name" (person icon), "Username" (person icon), and "Password" (lock icon). At the bottom is a large, rounded "Signup" button with a blue-to-orange gradient.


QUIZ-APP

BACK

Signup

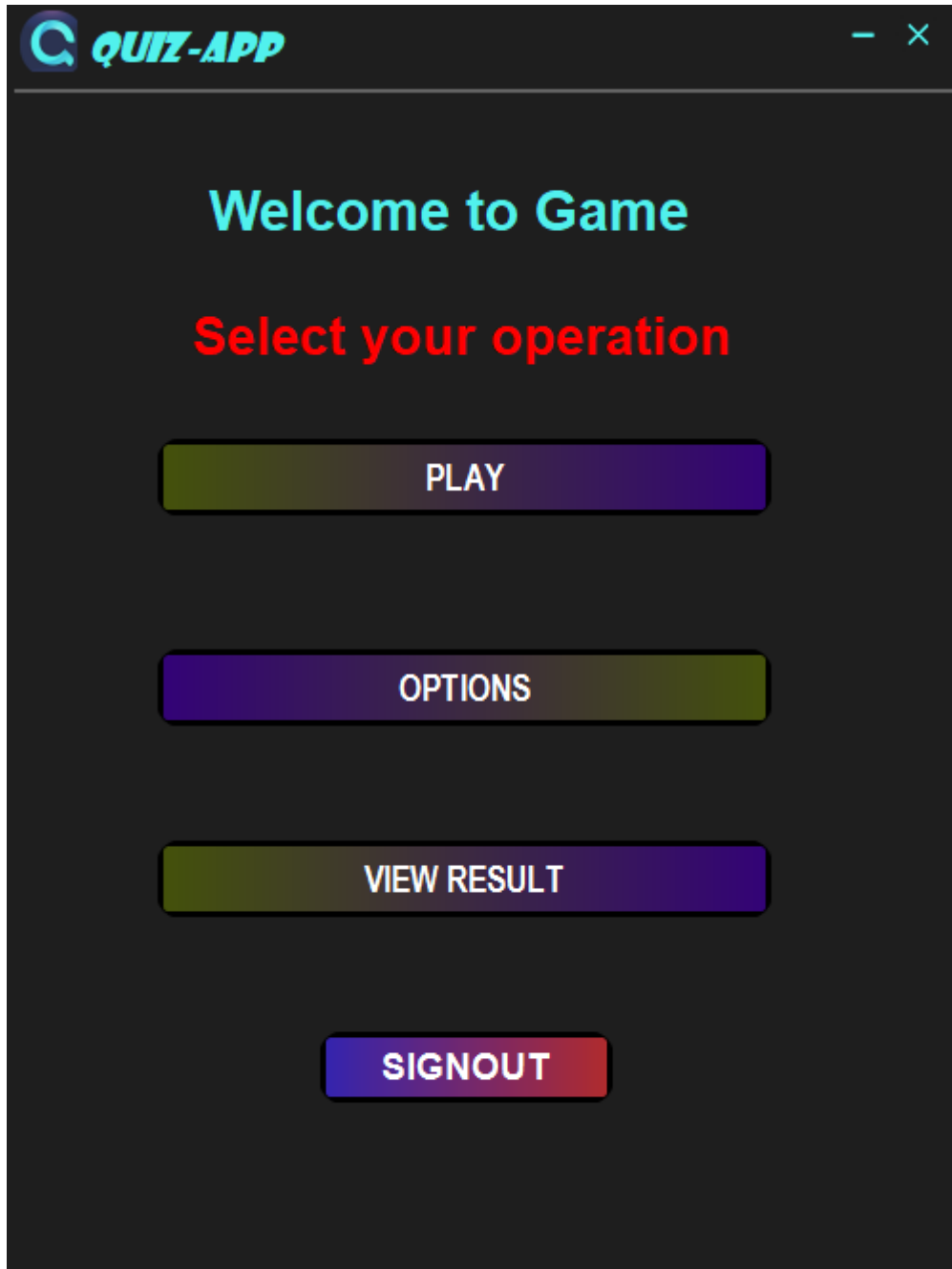
 Your Name

 Username

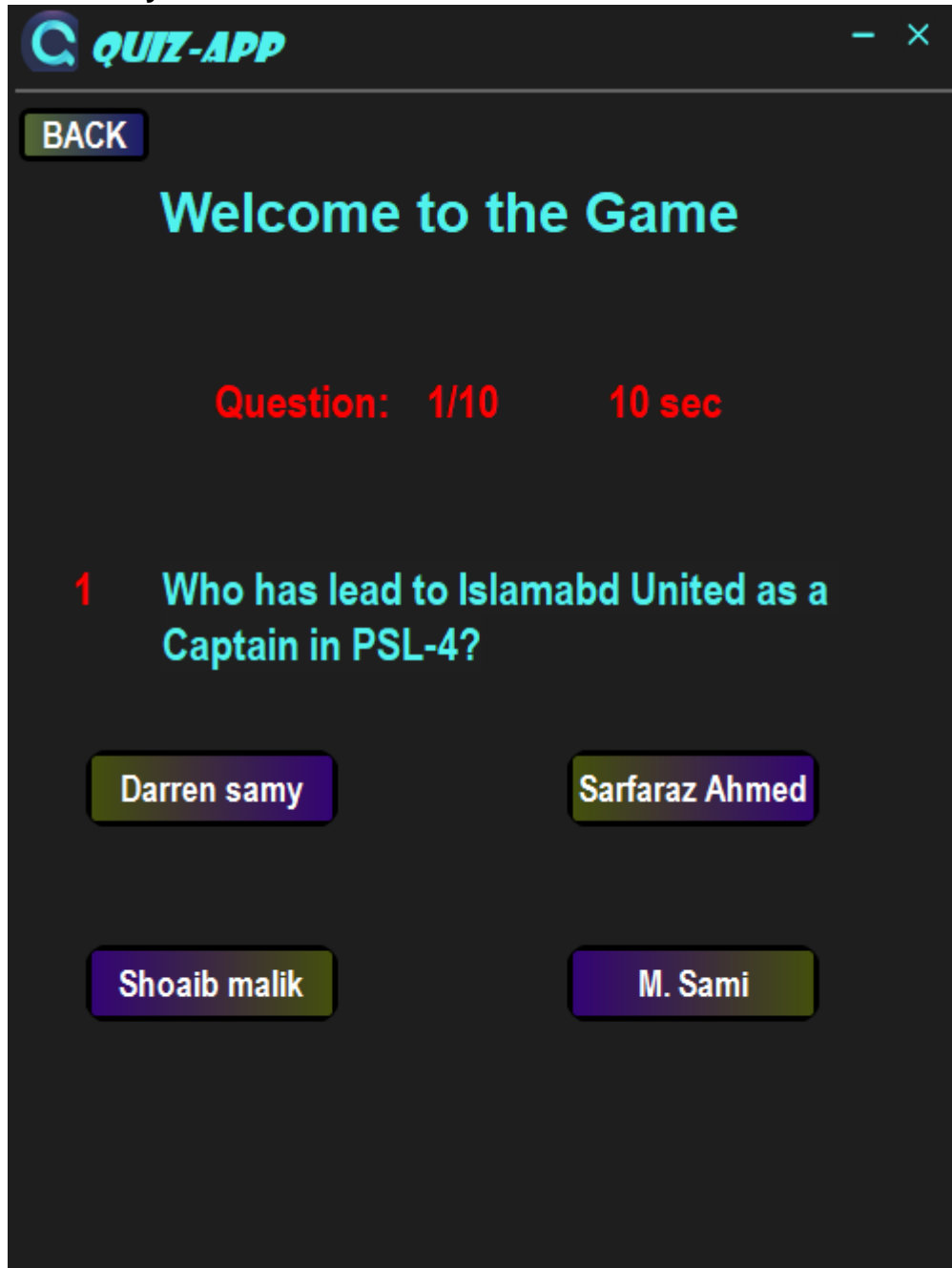
 Password

Signup

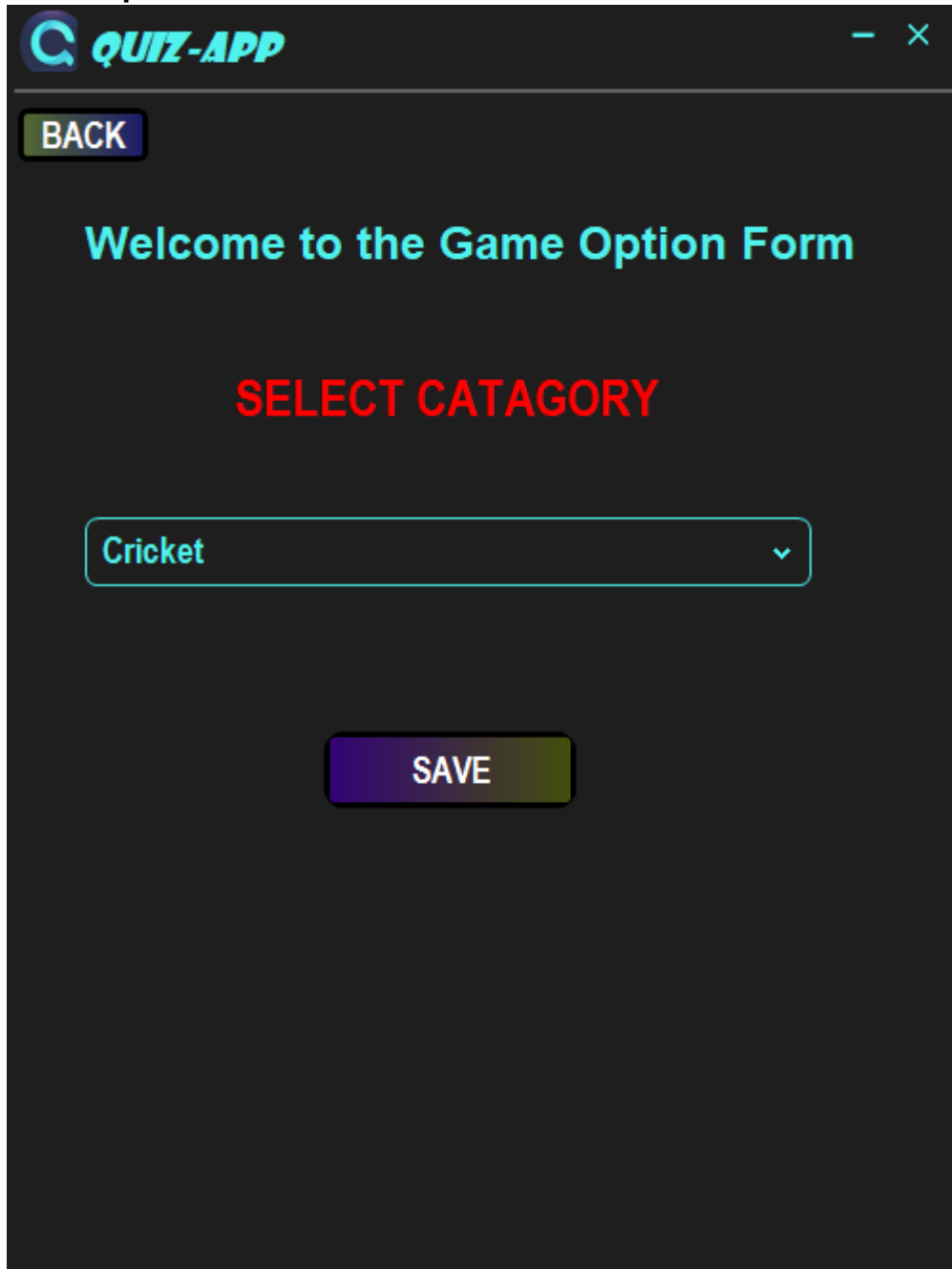
4.2.3 Home Screen:



4.2.4 Play Game Screen:



4.2.5 Options Screen:



The screenshot shows a mobile application window titled "QUIZ-APP" with a dark background. At the top left is a logo with a magnifying glass icon. In the top right corner are standard window control icons (minimize, maximize, close). Below the title bar, there is a "BACK" button with a green-to-blue gradient. The main content area displays the text "Welcome to the Game Option Form" in a light blue font, followed by "SELECT CATAGORY" in a bold red font. Below this is a dropdown menu with a light blue border and a light blue-to-white gradient, showing the word "Cricket" and a downward arrow. At the bottom center is a "SAVE" button with a purple-to-green gradient.

QUIZ-APP

BACK

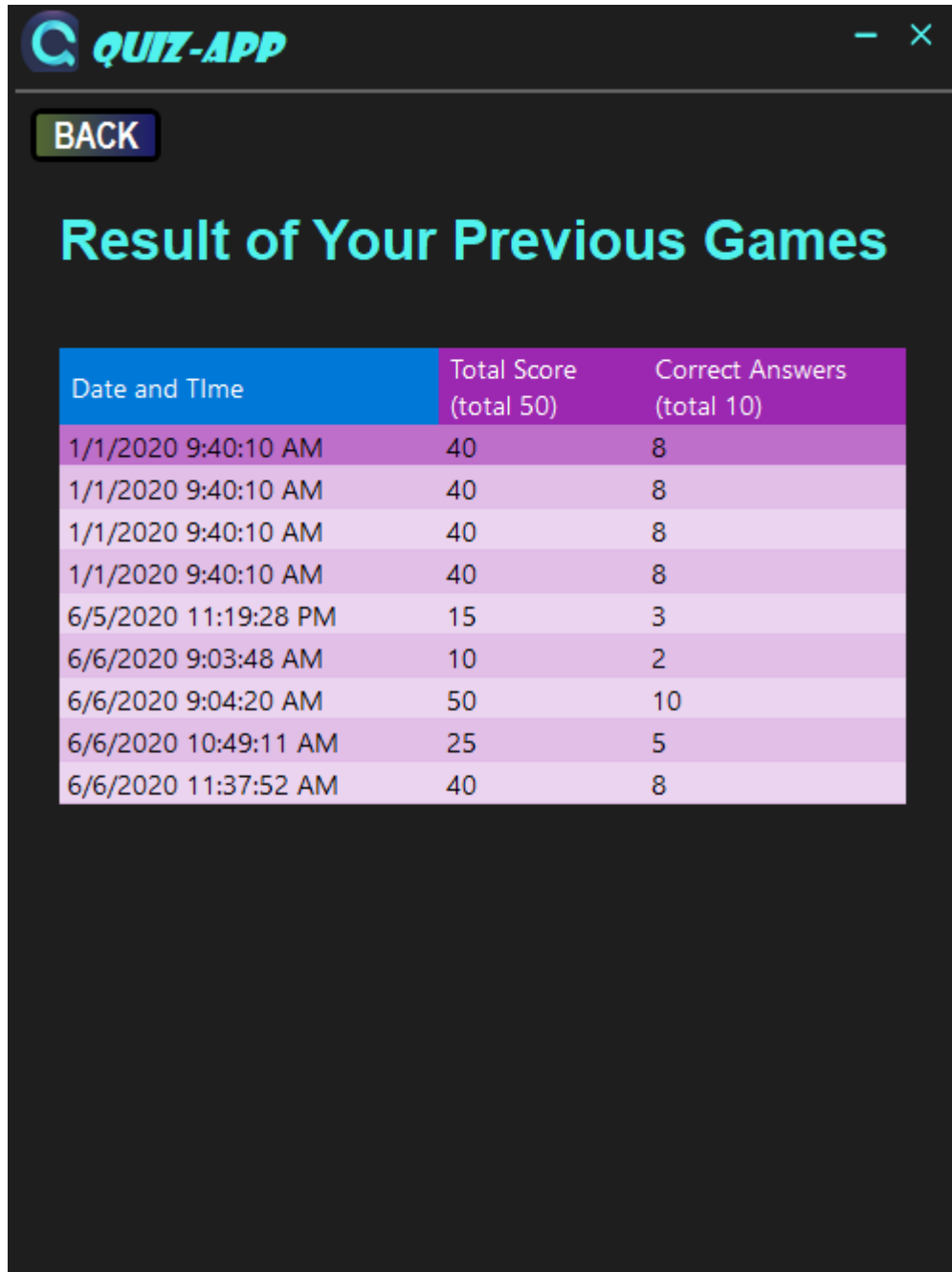
Welcome to the Game Option Form

SELECT CATAGORY

Cricket

SAVE

4.2.6 View Result Screen:



*****THE END*****