QUIZ APP REPORT

- Github link: https://github.com/MyCodeWheel/Quiz-App.git
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Table of Contents

1 Introduction: 2
1.1 Scope of the project: 2
2 Requirements: 2
2.1 Introduction: 2
2.2 Functional Requirements: 2
2.2.1 For Admin: 2
2.2.2 For Player: 3
2.3 Non-Functional requirements: 3
2.3.1 Usability: 3
2.3.2 Availability: 3
2.3.3 Implementation: 3
2.3.4 Security: 3
2.4 Interface Requirements: 4
2.4.1 User Interface: 4
2.4.2 Hardware Interface: 4
2.4.3 Software Interface: 4
3 System Models: 5
3.1 Use Case Diagram: 5
3.1.1 For Admin: 5
3.1.2 For Player: 6
4 Design: 8
4.1 For Admin: 8
4.1.1 Login Screen: 8
4.1.2 Home Screen: 9
4.1.3 Add New Question Screen: 10
4.1.4 Remove Question Screen: 11
4.1.5 Update Question Screen: 12
4.1.6 View list of Questions Screen: 13
4.2 For Player: 14
4.2.1 Login Screen: 14
4.2.2 Signup Screen: 15
4.2.3 Home Screen: 16
4.2.4 Play Game Screen: 17
4.2.5 Options Screen: 18
4.2.6 View Result Screen: 19

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.

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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:**

  Play 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

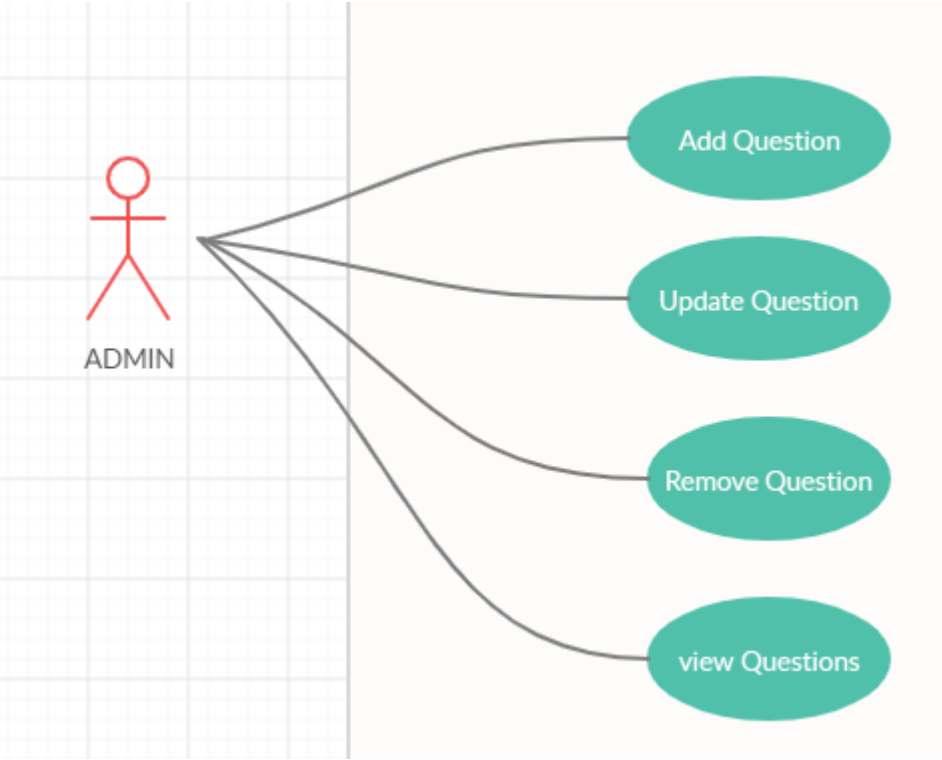
2.4.3 Software Interface:

- **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:



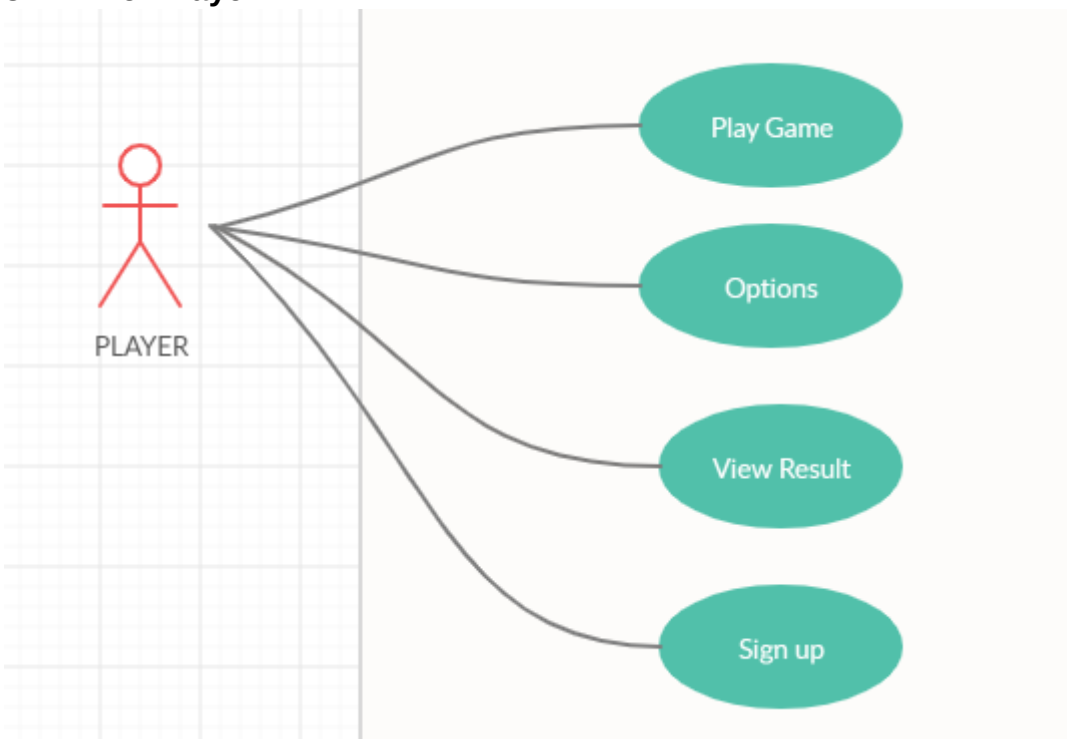
Quiz App: Admin (Add new Question)	
Actor:	Admin
Description:	Admin should be able to add new questions.
Stimulus:	Admin click on add new question button after login with their username or password.
Response:	New form will appear for add new question for quiz.

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.

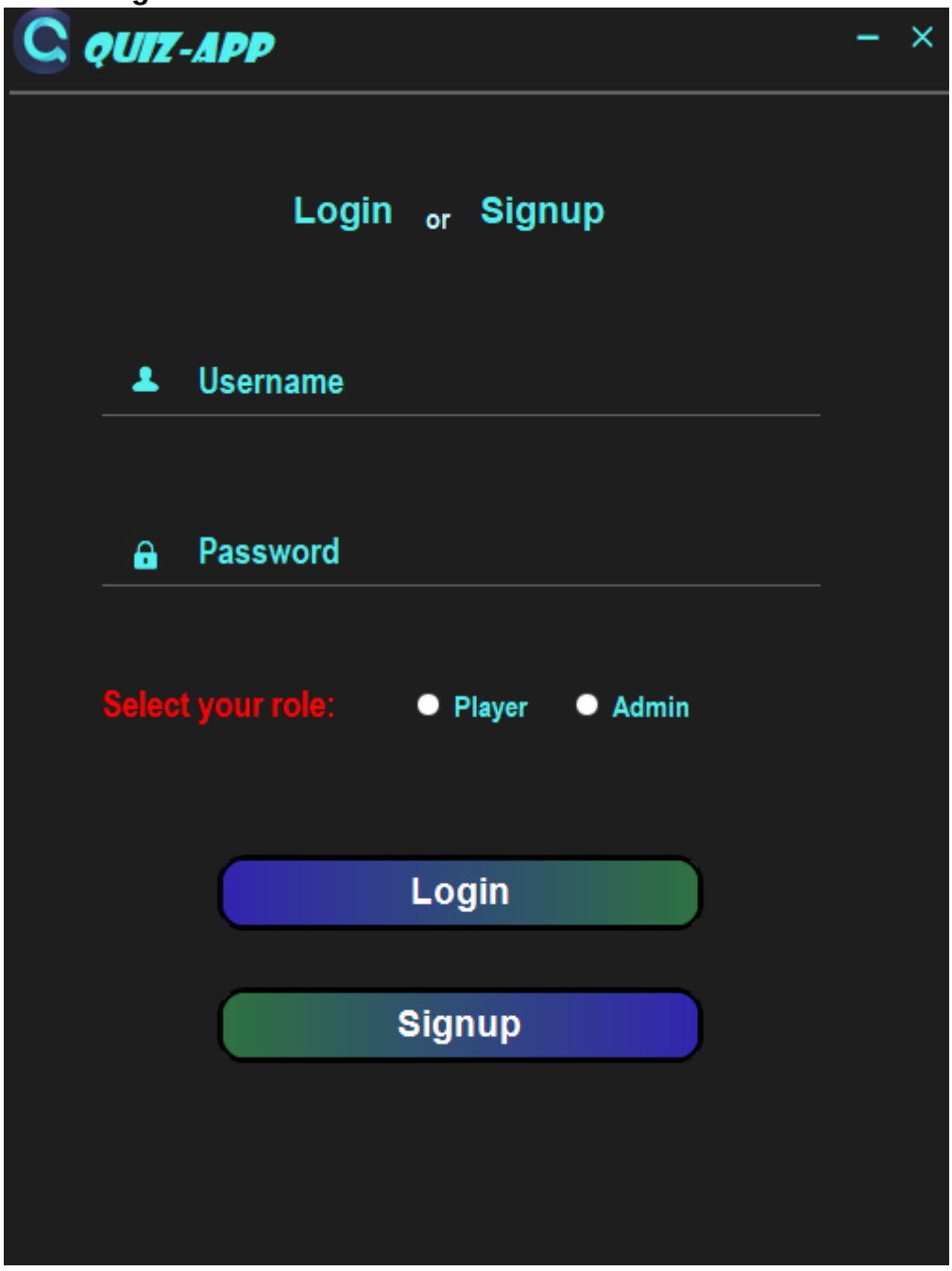
Quiz App: Player (View Result)	
Actor:	Player
Description:	Player should be able to view the result of previous games
Stimulus:	Player click on view result button after login with their username or password.
Response:	New form will appear with result of previous games.

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.

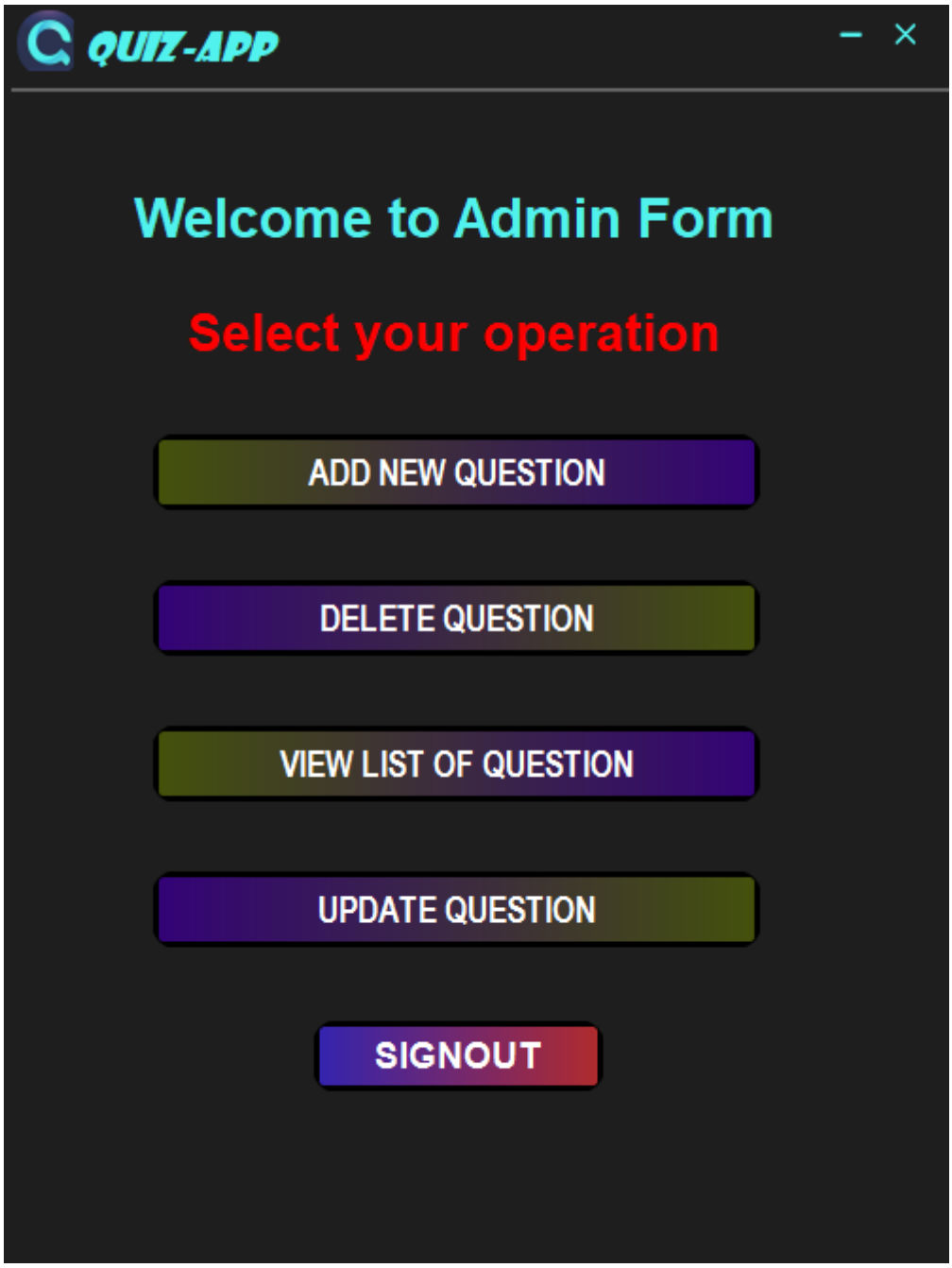
4 Design:

4.1 For Admin:

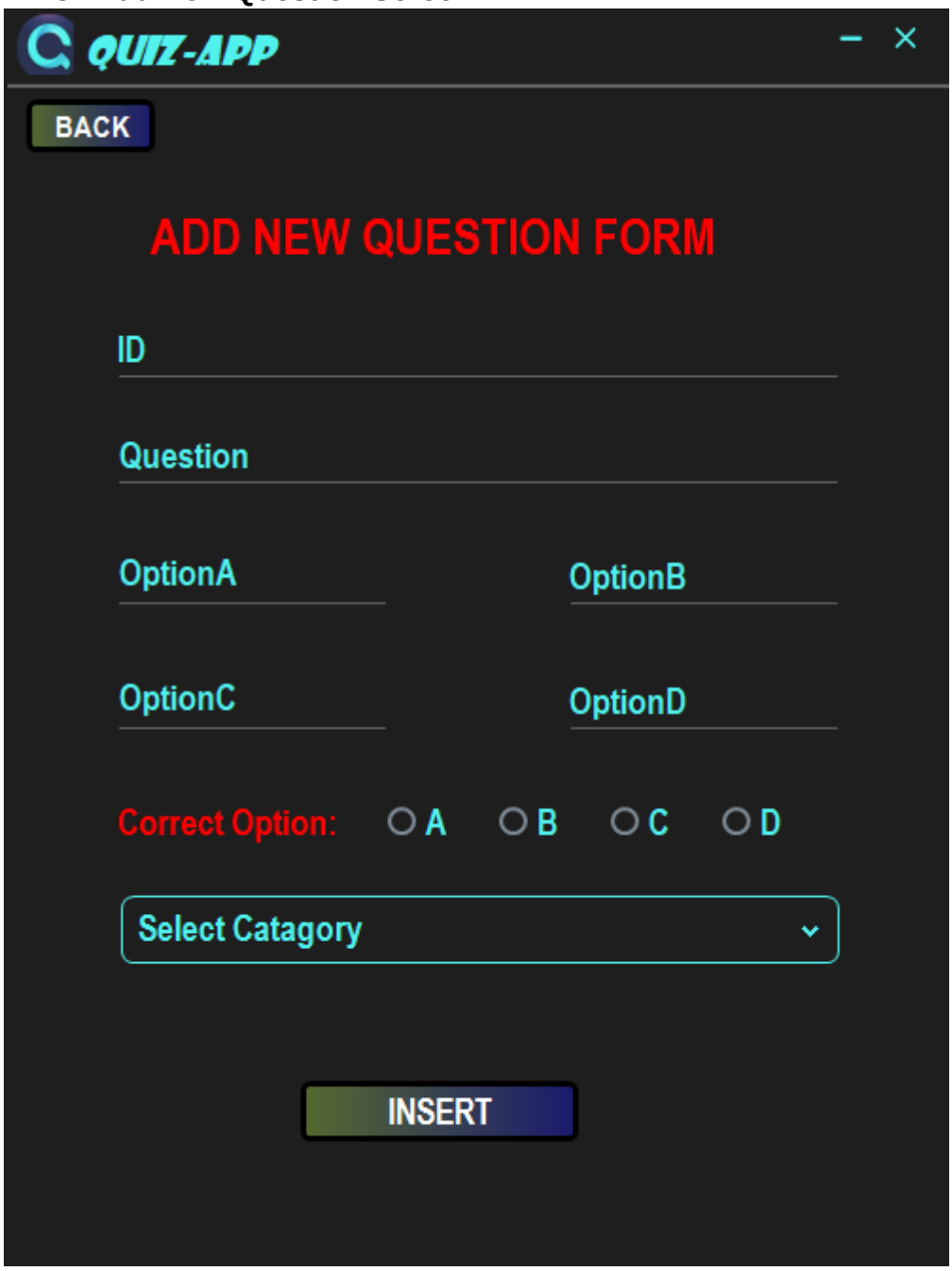
4.1.1 Login Screen:



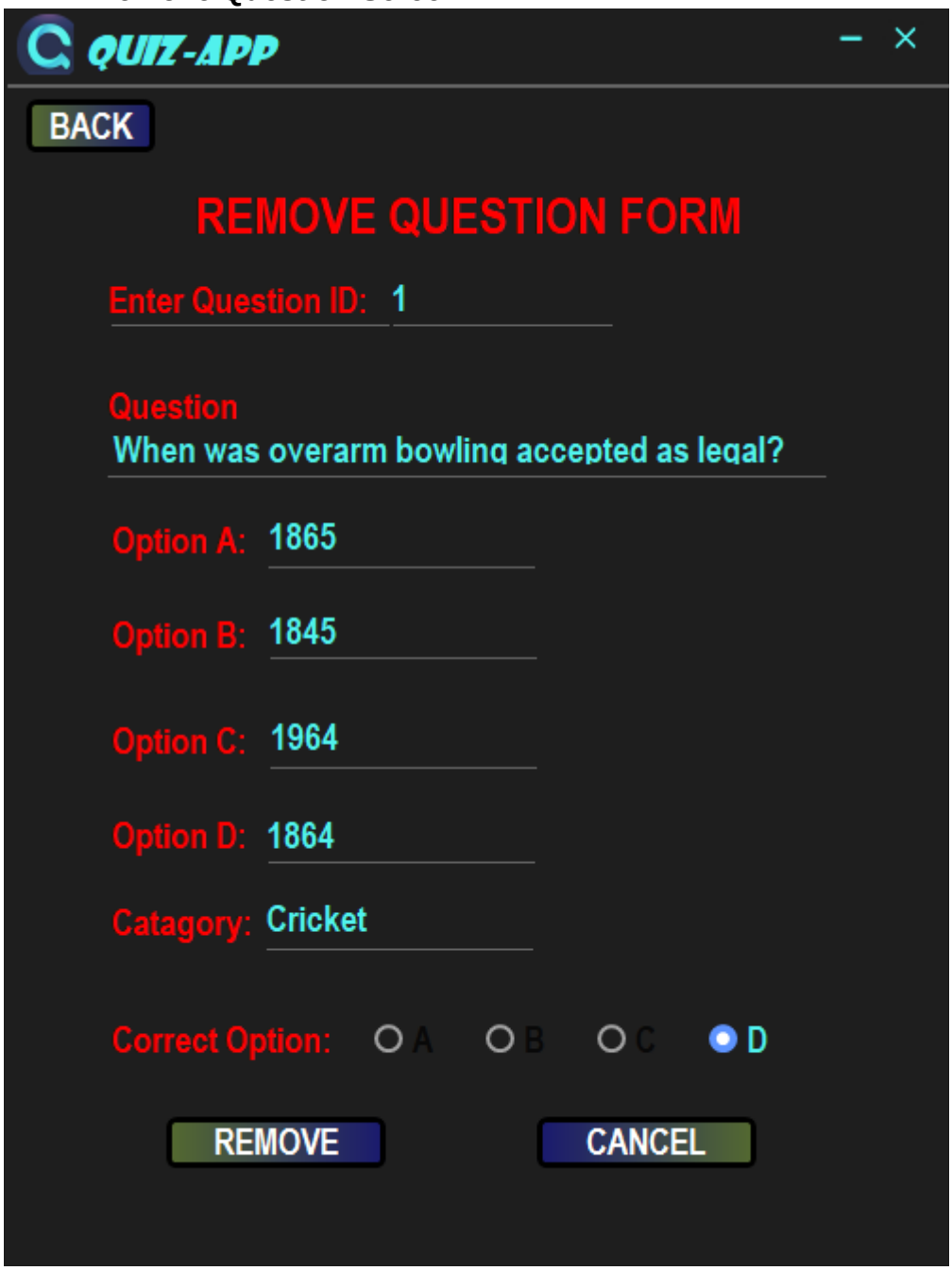
4.1.2 Home Screen:



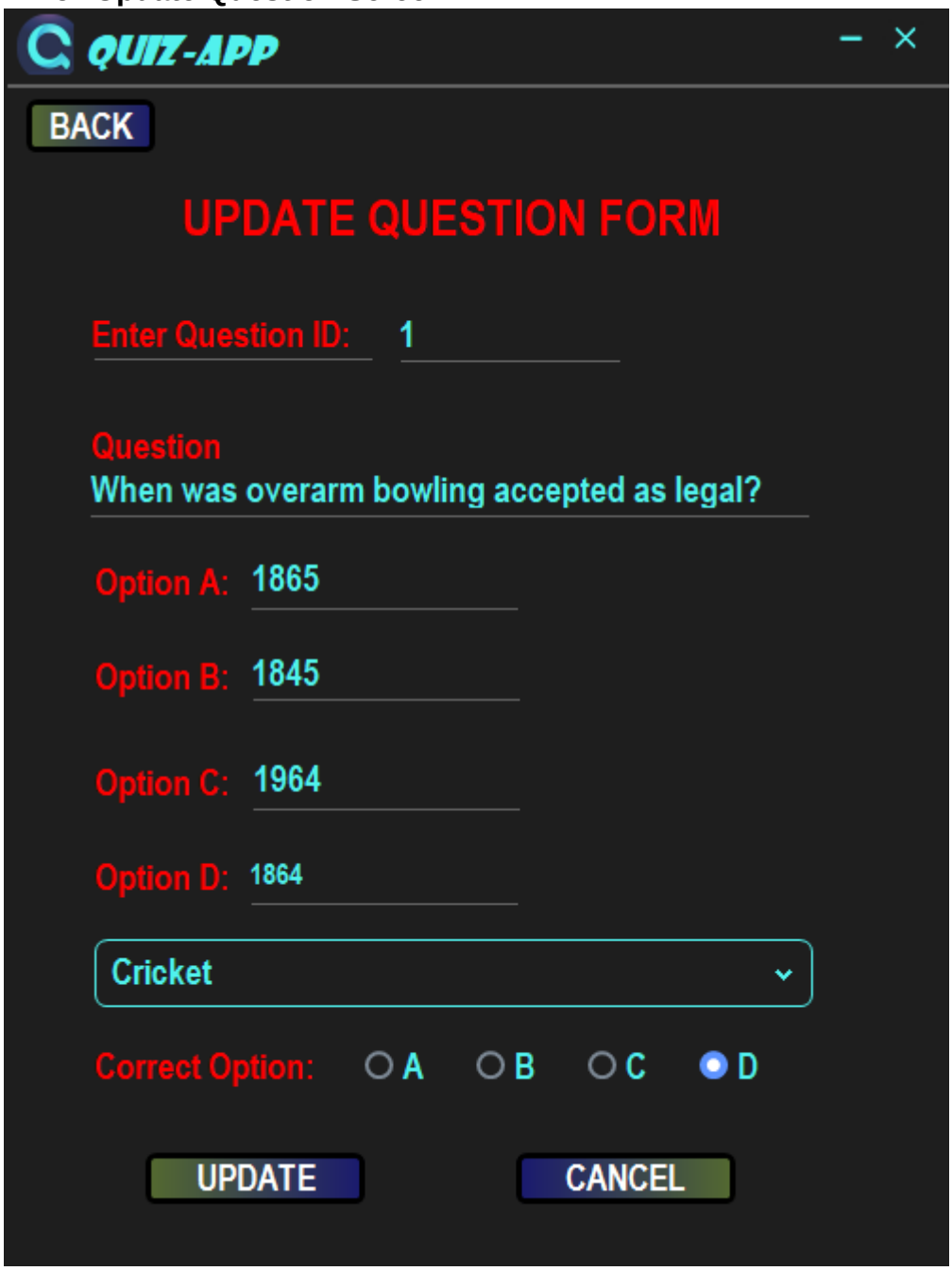
4.1.3 Add New Question Screen:



4.1.4 Remove Question Screen:



4.1.5 Update Question Screen:

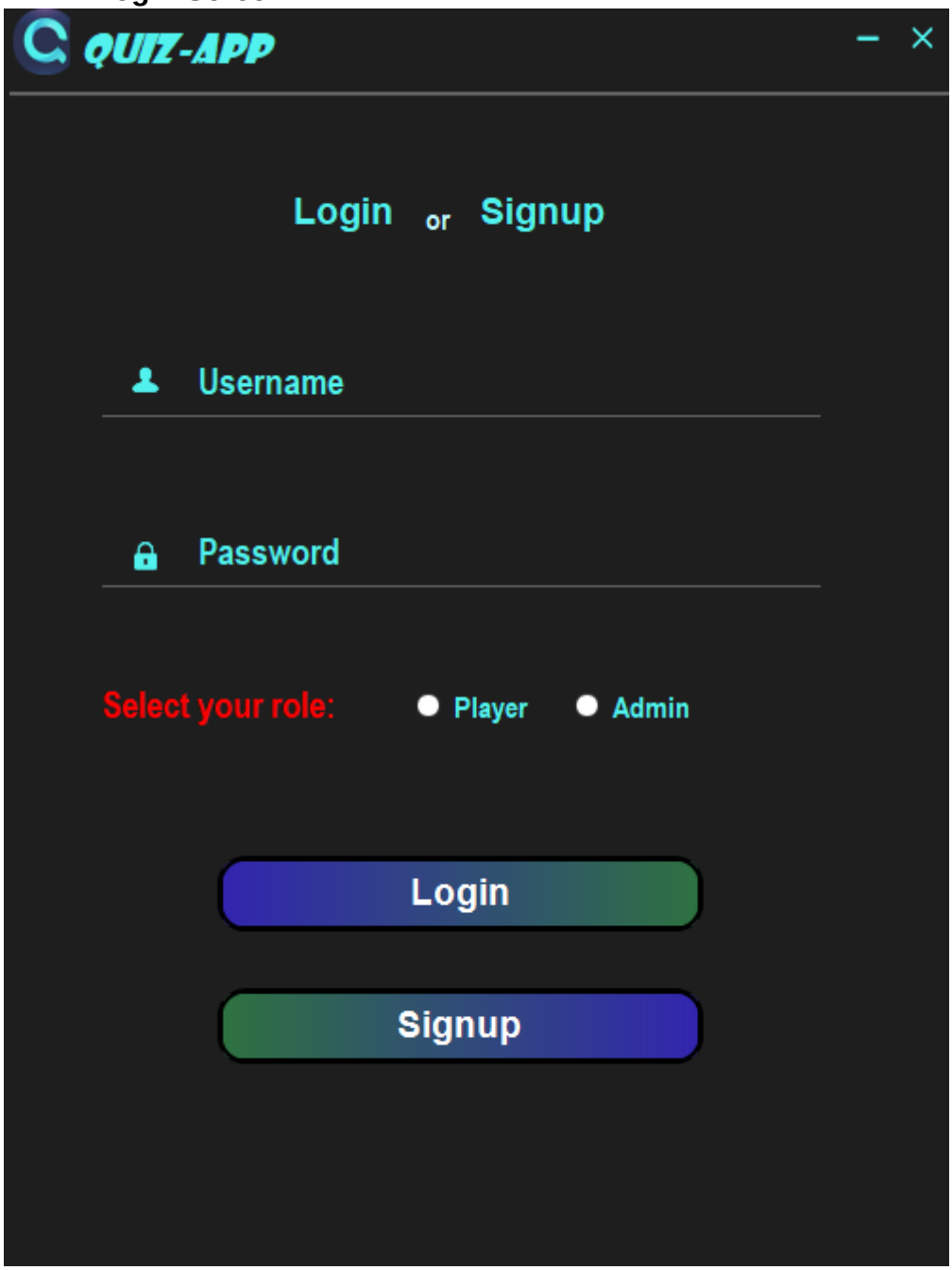


4.1.6 View list of Questions Screen:

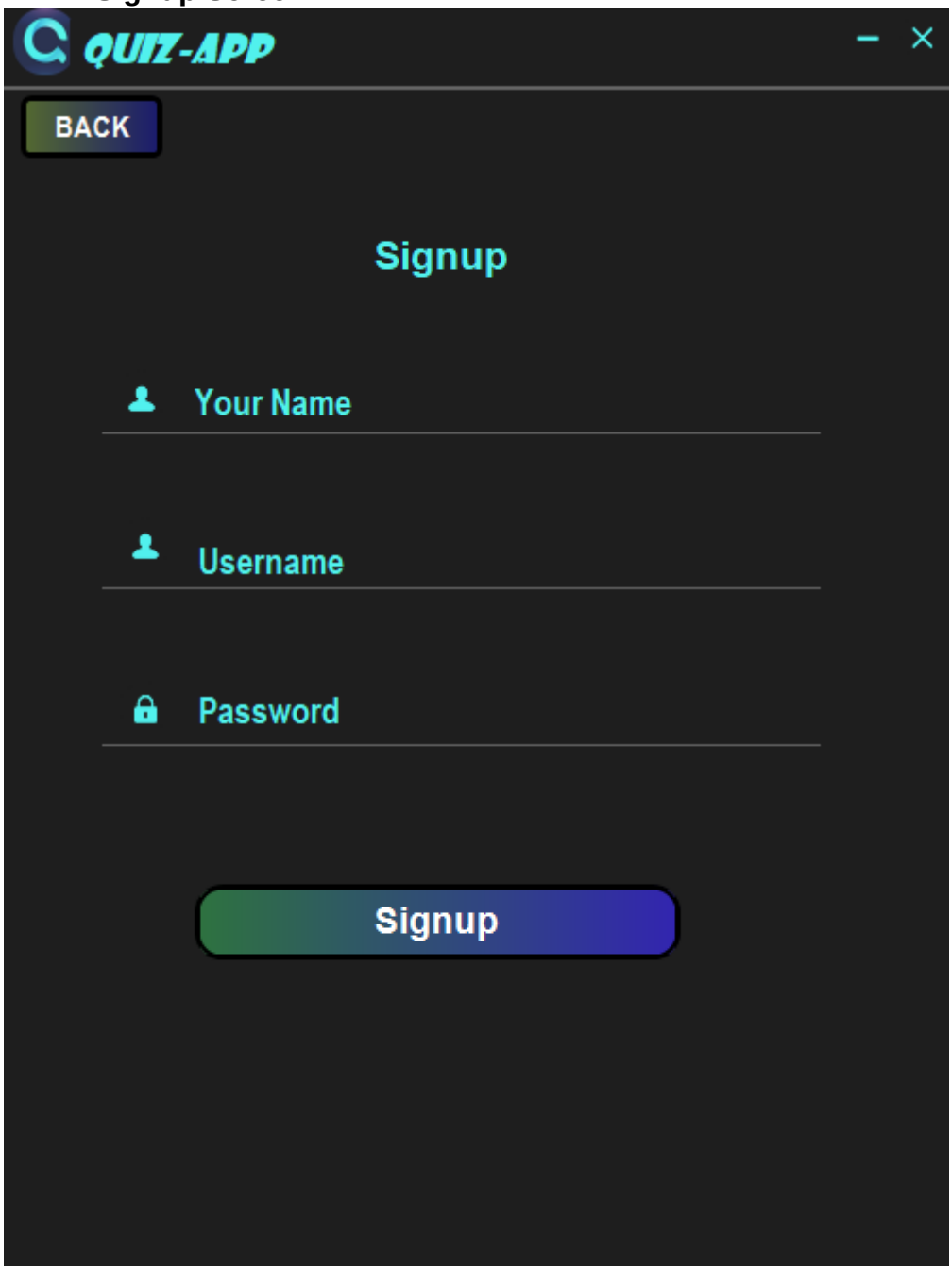
ID	Question	OptionA	OptionB	OptionC	OptionD	Answer	Catagory
1	When was overarm bowling accepted as legal?	1865	1845	1964	1864	1864	Cricket
2	How many times Chennai Super Kings won the IPL?	4	2	3	1	3	Cricket
3	Who is "Two metre Peter"?	Peter Fulton	Younis Khan	Joe Root	ABD	Peter Fulton	Cricket
4	The first 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	Inzimam	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	Austraiia	China	Austraiia	Cricket
8	The Youngest Player to Take 10 winkets 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	Autralia	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 Islamabd United as a Captain in PSL-4?	Darren samy	Sarfaraz Ahmed	Shoaib malik	M. Sami	M. Sami	Cricket

4.2 For Player:

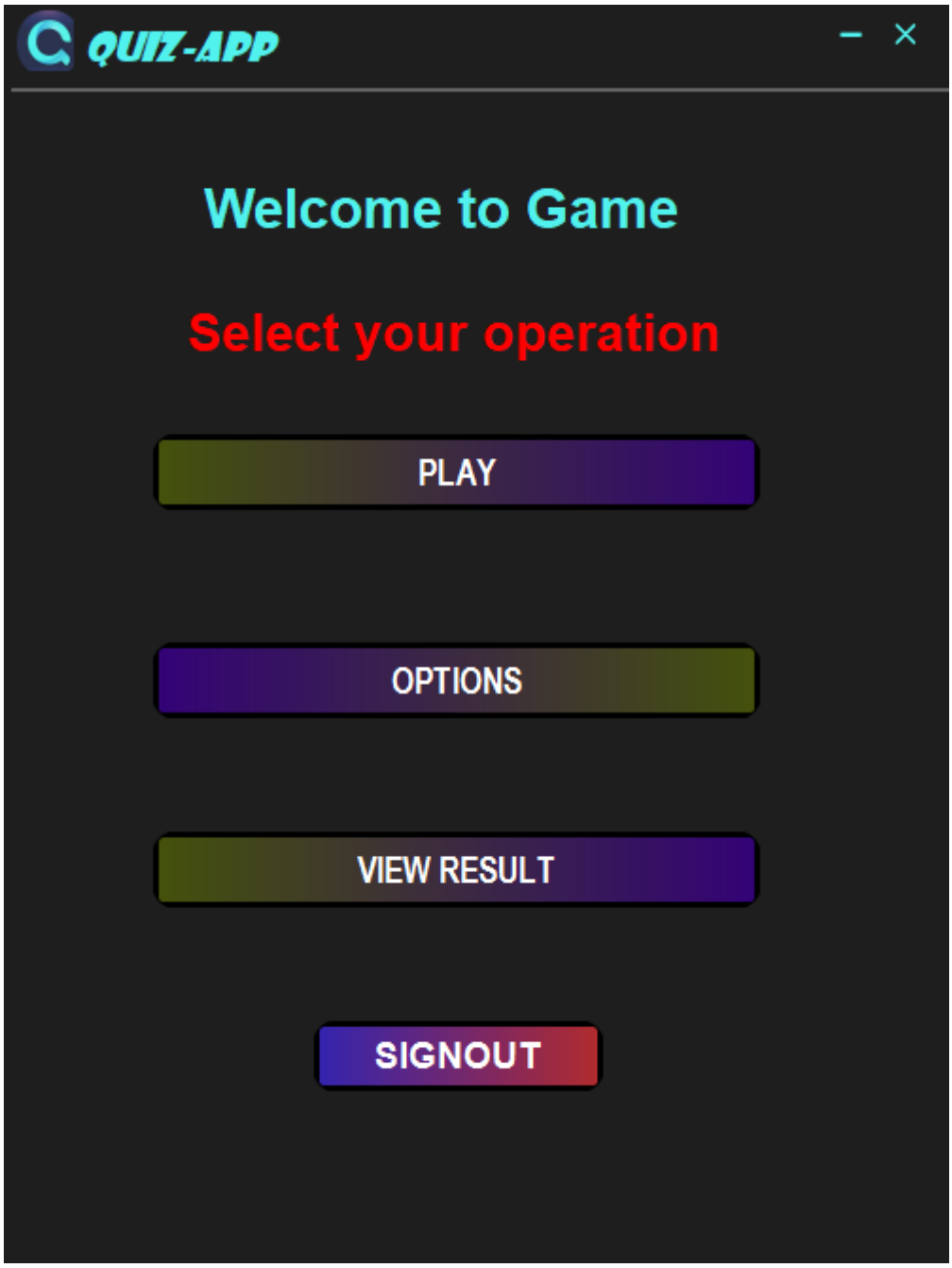
4.2.1 Login Screen:



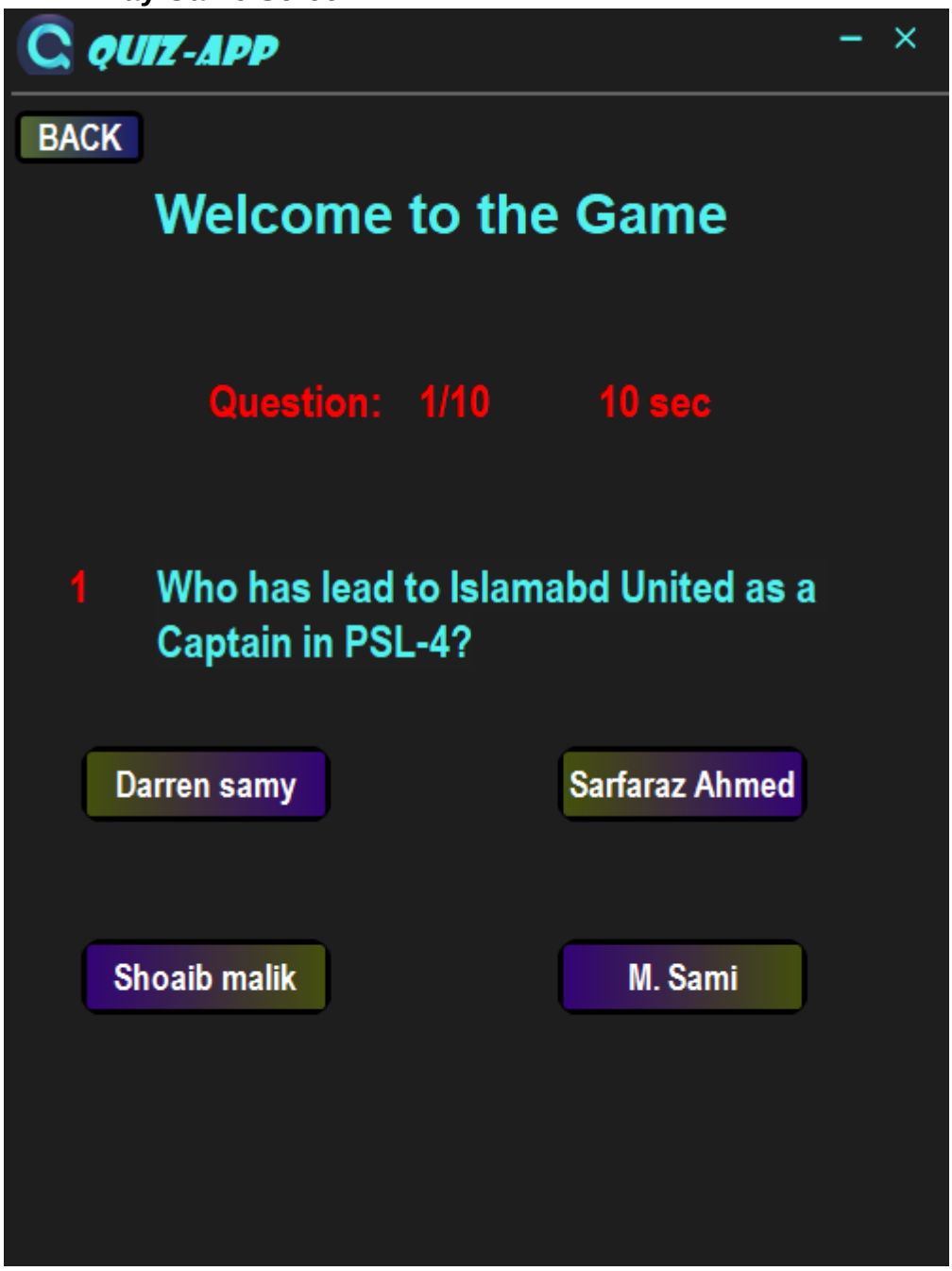
4.2.2 Signup Screen:



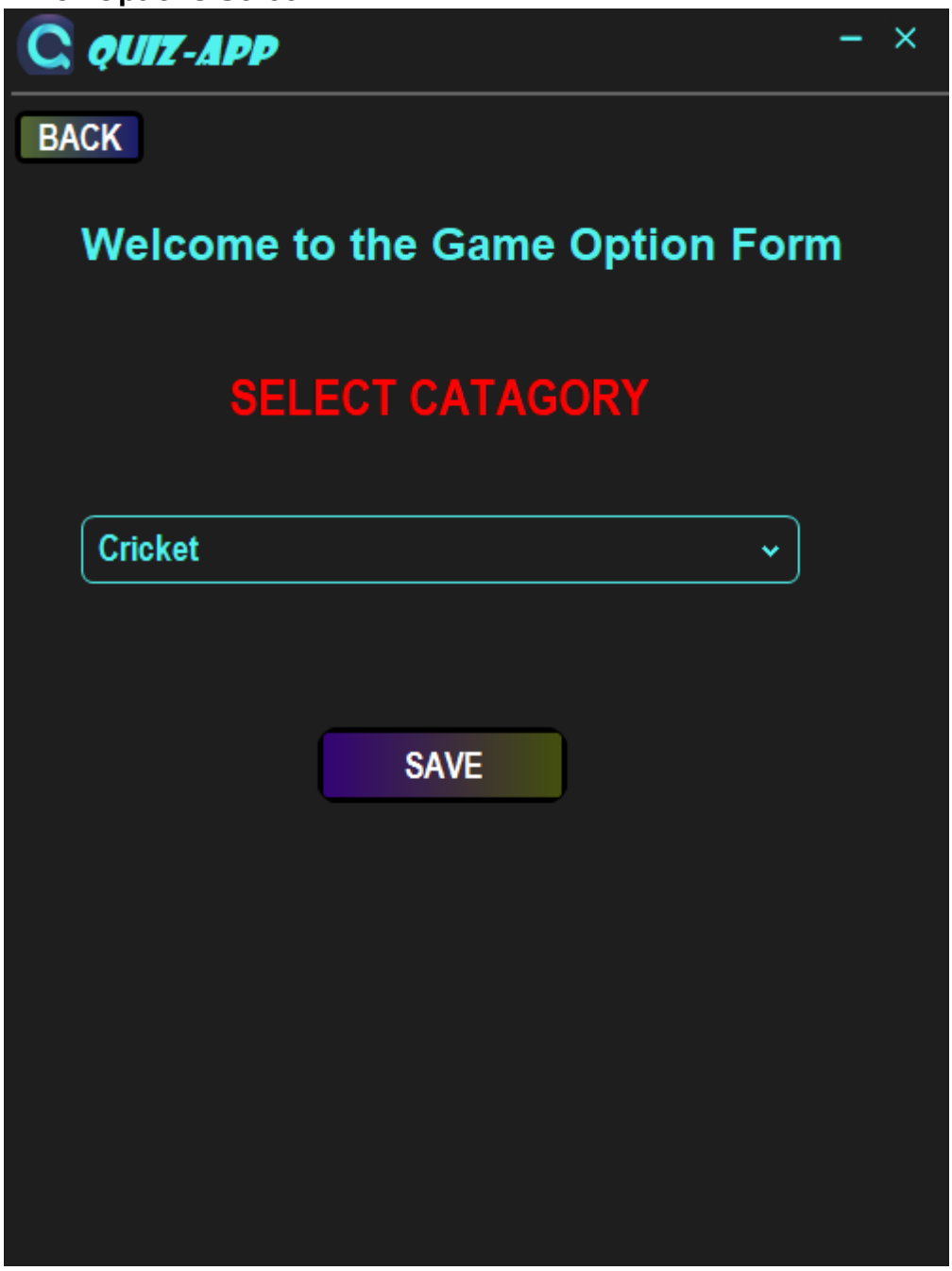
4.2.3 Home Screen:



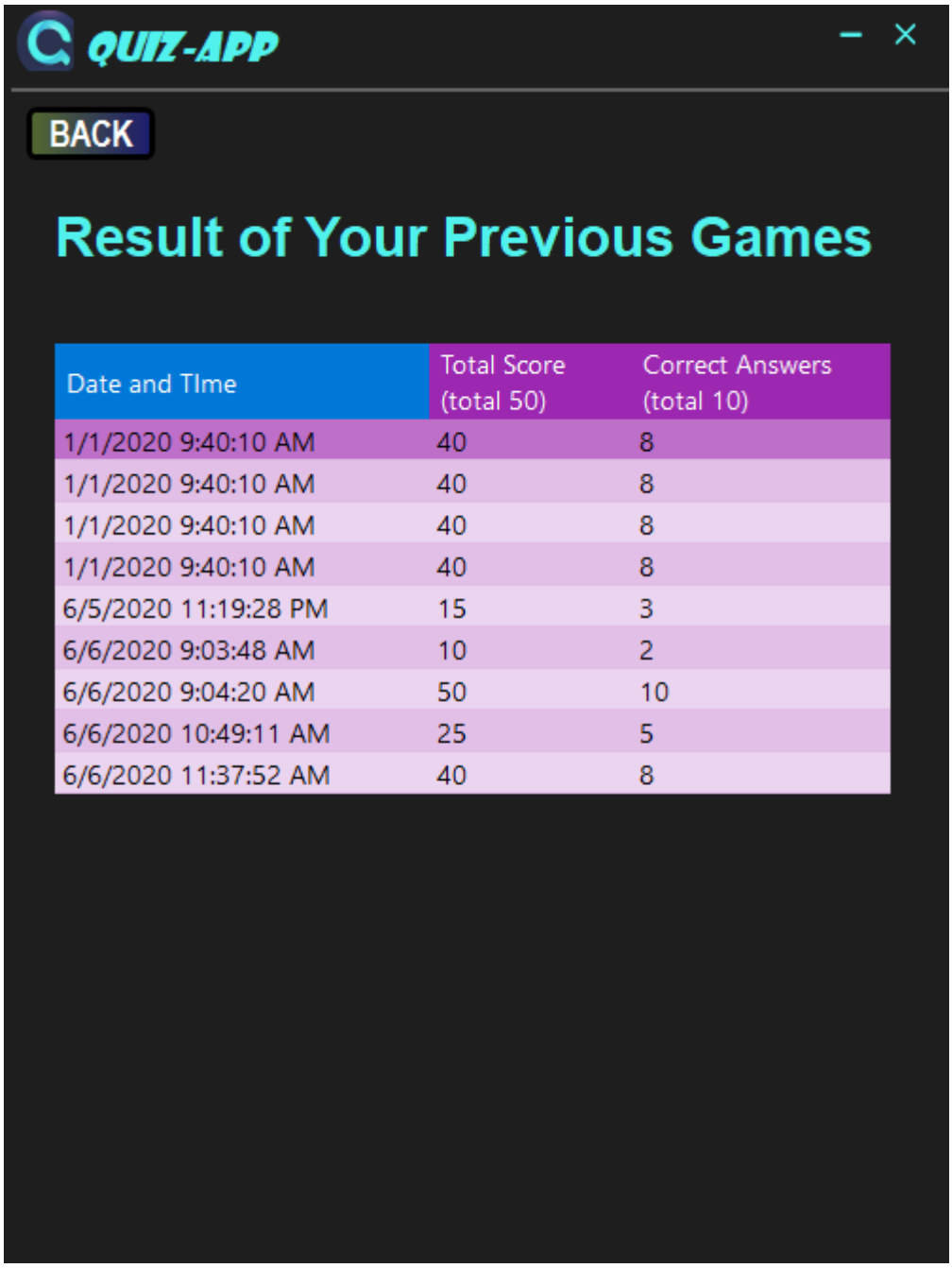
4.2.4 Play Game Screen:



4.2.5 Options Screen:



4.2.6 View Result Screen:



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