Report On

The Quiz Application

Submitted in partial fulfillment of the requirements of the Course project in
<mark>Semester III of Second Year</mark> Artificial Intelligence and Data Science

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CERTIFICATE

This is to certify that the project entitled "The Quiz application" is a bonafide work of "Suzen Machado (Roll No. 23), Lavanya Murudkar (Roll No. 31), Harsh Naik (Roll No. 32), Name4 Surname4 (Roll No. xx)" submitted to the University of Mumbai in partial fulfillment of the requirement for the Course project in semester III of Second Year Artificial Intelligence and Data Science engineering.

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Abstract:

This Quiz application is a user-friendly, interactive mobile application designed to engage users in a fun and educational quiz experience. This application offers a wide range of quiz categories, from general knowledge to specialized topics, allowing users to challenge their intellect, learn new facts, and compete with friends and fellow users. With an intuitive user interface, real-time scoring, and a vast database of questions, Quiz application provides an enjoyable and enriching quiz experience for users of all ages. Whether you're looking to test your knowledge or simply have a good time, Quiz application is the go-to platform for a stimulating quiz journey.

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Problem Statement:

In the digital age, there is a growing need for a user-friendly and feature-rich quiz application that caters to a diverse audience.
 Existing quiz apps often lack variety in question categories, fail to provide real-time scoring and competitive features, and may have cumbersome user interfaces.
 Moreover, the absence of interactive and engaging quiz platforms leaves a void in the market for individuals seeking both entertainment and educational value.
 The challenge is to develop a comprehensive quiz application that addresses these issues and offers an all-encompassing, enjoyable quiz experience to users.

INTRODUCTION

1. Quiz game has general questions related to various to Subjects(History,Entertainment) and Current Affairs.
2. It has multiple choice Questions and after selecting a answer it tells that the answer is correct or incorrect.
3. It is good for students of every age group it helps in increasing general knowledge.
4. The main objective of Quiz game is to facilitate a user Friendly environment for all users and reduces the manual effort.
5. Testing identifies gap in knowledge.

This game is fun to play and anyone can play the game

FEATURES OF QUIZ APPLICATION

1. **Great design is the key for Quiz Games:-**
   o The design of quiz games should be attractive.
   o It should be easy on the eye, yet engaging.
   o Some of the best quiz apps have the simplest designs.
   o They are minimalistic and not cluttered.
   o There are visuals and the information is presented in a clear and concise manner. And of course, one cannot get the design right to begin with.

2. **Mobile capabilities should be top-notch:-**
   o Quiz games are played on the mobile, so they need to be keeping the mobile experience in mind.
   o The navigation should be simple and easy to understand. The fonts should be easily readable. The images should be optimised for the mobile.
   o The size of the screen, placement of information and buttons should be done smartly.
   o A responsive design is thus important. The app should enable users to scroll horizontally and vertically to find anything they want.

3. **Have interesting questions**
   o Quiz games have visual–based questions are popular with users. People are attracted more to visuals.

   o This makes the game exciting for the players. Overall the questions should be exciting, something that intrigues the reader.

   o There should be questions based on a variety of topics and of varying difficulty levels.

4. **Giving users an option to reach out**
   o Users of an app want an easy way so that they can reach out to you. They may have any grievances or questions or may want to give some feedback.

- While an email is mandatory, even chat options that resolve queries can help. Most importantly one needs to have a mechanism in place so that responses are fast and helpful.

5. **Collecting useful data from users**
   - Quiz games that are being played by thousands of players can leverage the big data bank that they have.

   - It would include information like name, email address, telephone number and so on. The data can be analyzed to make quiz games more efficient. In this age, the more data quiz games have, the better.

API Files Used:-

1. Import java.util.Scanner:- Scanner is a class in java.util package used for obtaining the input of the primitive types like int, double, etc. and strings. It is the easiest way to read input in a Java program, though not very efficient if you want an input method for scenarios where time is a constraint like in competitive programming.

- To create an object of Scanner class, we usually pass the predefined object System.in, which represents the standard input stream. We may pass an object of class File if we want to read input from a file.

- To read numerical values of a certain data type XYZ, the function to use is nextXYZ(). For example, to read a value of type short, we can use nextShort()

- To read strings, we use nextLine().

- To read a single character, we use next().charAt(0). next() function returns the next token/word in the input as a string and charAt(0) function returns the first character in that string.

Statements Used:-

1. Java **System.out.println()** is used to print an argument that is passed to it. The statement can be broken into 3 parts which can be understood separately as:
- **System**: It is a final class defined in the java.lang package.
- **out**: This is an instance of PrintStream type, which is a public and static member field of the System class.
- **println()**: As all instances of PrintStream class have a public method println(), hence we can invoke the same on out as well. This is an upgraded version of print(). It prints any argument passed to it and adds a new line to the output. We can assume that System.out represents the Standard Output Stream.

PROGRAM CODE:

```java
//import scanner
import java.util.Scanner;

public class Quiz {

    //main method
    public static void main(String[] args) {
        //variable
        int choices;
        int q;
        int q2;
        int q3;
        int q4;
        int q5;

        //scanner for input options
        Scanner scan = new Scanner(System.in);
        System.out.println("Who is the president of the USA ?");

        //choose answer from these 4 options
        System.out.println("Choose 1 for Joe Biden. \nChoose 2 for Justin
Bieber.  \nChoose 3 for Selena Gomez. \nChoose 4 for Katy Perry.");
        q = scan.nextInt();


        if (q != 1) {
            //if select wrong options
            System.out.println("Your answer is incorrect Joe Biden is the
right answer .");
        }

        {
            while (q == 1) {
                //selected right option
                System.out.println("Congrats you answer is correct");

                q++;
            }
            System.out.println();
        }
```

```java
System.out.println("How many colors are there in a rainbow ?");

//choose answer from these 4 options
System.out.println("Choose 1 for 5. \nChoose 2 for 7.  \nChoose 3
for 6. \nChoose 4 for 10.");
q2 = scan.nextInt();


if (q2 != 2) {
    System.out.println("Your  answer  is  incorrect  7  is  the  right
answer.");
}

{
    while (q2 == 2) {
        System.out.println("Congrats you answer is correct ");
        q2++;
    }
    System.out.println();
}


System.out.println("Who is called the father of India ?");

//choose answer from these 4 options
System.out.println("Choose 1 for Jawaharlal nehru. \nChoose 2 for
Mahatma Gandhi.  \nChoose 3 for Sachin Tendulkar. \nChoose 4 for
Chandrashekhar Bose.");
q3 = scan.nextInt();


if (q3 != 2) {
    System.out.println("Your answer is incorrect Mahatma Gandhi
is the right answer.");
}

{
    while (q3 == 2) {
        //display congrate message for right answer
        System.out.println("Congrats you answer is correct");
        q3++;
    }
```

```java
            System.out.println();
        }


        System.out.println("Who sing this the song 'Roar':");

        //choose answer from these 4 options
        System.out.println("Choose  1  for  R.  City  &  Adam  Levine's.
\nChoose 2 for Justin Bieber.  \nChoose 3 for Selena Gomez. \nChoose
4 for Katy Perry.");
        q4 = scan.nextInt();


        if (q4 != 4) {
            //display congrate message for incorrect answer
            System.out.println("Your answer is incorrect  Katy Perry is the
right answer.");
        }

        {
            while (q4 == 4) {
                //display congrate message for right answer
                System.out.println("Congrate you answer is correct");
                q4++;
            }
            System.out.println();
        }


        System.out.println("Who wrote the national anthem ?");

        //choose answer from these 4 options
        System.out.println("Choose 1 for Lata Mangeshkar. \nChoose 2 for
Justin Bieber.  \nChoose 3 for Rabindranath Tagore. \nChoose 4 for Atal
Bihari.");
        q5 = scan.nextInt();
        if (q5 != 3) {
            System.out.println("Your  answer  is  incorrect  Rabindranath
Tagore  is the right answer.");
        }
        {
            //using while loop
            while (q5 == 3) {
```

```java
                    //display congrats message for right answer
                    System.out.println("Congrats you answer is correct");
                    //stop repeating
                    q5++;
                }  //stop repeating
            System.out.println();
            }
        }
    }
```

OUTPUT:

Who is the president of the USA ?
Choose 1 for Joe Biden.
Choose 2 for Justin Bieber.
Choose 3 for Selena Gomez.
Choose 4 for Katy Perry.
1
Congrats you answer is correct

How many colors are there in a rainbow ?
Choose 1 for 5.
Choose 2 for 7.
Choose 3 for 6.
Choose 4 for 10.
3
Your answer is incorrect 7 is the right answer.Who is called the father of India
?
Choose 1 for Jawaharlal nehru.
Choose 2 for Mahatma Gandhi.
Choose 3 for Sachin Tendulkar.
Choose 4 for Chandrashekhar Bose.

Conclusion:

In conclusion, the development and implementation of a well-crafted quiz application not only cater to the increasing demand for digital entertainment but also serve as a valuable educational tool. Such applications have the potential to engage users in a dynamic and interactive manner, fostering a sense of curiosity and learning while providing an enjoyable pastime. The diverse range of question categories, real-time scoring, and competitive features make quiz applications a versatile platform for users of all ages and backgrounds. As technology continues to advance, quiz applications will play an increasingly significant role in promoting knowledge, mental agility, and social interaction, enhancing the overall user experience in the digital realm.

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