

# A Project Report On "QUIZ"

# **Submitted By:**

P.Asrith Vatsal

School Roll No: 19

Class: XII B

**CBSE Roll No:** 

# **Under the Guidance of**

Mr. Anoop V S

PGT (Computer Science)

Department of Computer Science

# SAINIK SCHOOL KALIKIRI

# Department of Computer Science SAINIK SCHOOL KALIKIRI



This is to certify that **Cdt. P.ASRITH VATSAL**, Roll No. 19 of Class XII has prepared the report on the Project entitled "QUIZ". The report is the result of his efforts & endeavors. The report is found worthy of acceptance as final project report for the subject Computer Science of Class XII.

Signature (Internal Examiner) Signature

(External Examiner)



# **DECLARATION**

I hereby declare that the project work entitled "QUIZ", submitted to Department of Computer Science, SAINIK SCHOOL KALIKIRI is prepared by me. All the coding is the result of my personal efforts.

Cdt. P.Asrith Vatsal

Roll No: 19

Class: XII B

SAINIK SCHOOL KALIKIRI



# **ACKNOWLEDGEMENT**

I would like to express a deep sense of thanks & gratitude to my **project guide**Mr. Anoop V S Sir for guiding me immensely through the course of the project. He always evinced keen interest in my work. His constructive advice & constant motivation have been responsible for the successful completion of this project.

My sincere thanks go to Lt Col Susheel Kumar Mahapatro SM, our Offg Principal sir, for his co-ordination in extending every possible support for the completion of this project.

I also thanks to my **parents** for their **motivation & support**. I must thanks to my **classmates** for their timely help & support for **compilation** of this **project**.

Last but not the least, I would like to thank all those who had helped directly or indirectly towards the completion of this project.

Cdt. P.Asrith Vatsal

Roll No: 19

Class: XII B

SAINIK SCHOOL KALIKIRI

# QUIZ CONTENTS

1. Working Description
2. Code of the Project
3. Output Screens
4. Bibliography

# 1.WORKING DESCRIPTION

The program has two main functions.

### 1. TO OPEN AS ADMIN.

**a.** Here we would update and delete the questions while we work as admin.

# 2. THE QUIZ GAME.

- **a.** This option consists of two rounds with an assessment round to go to the last round that is the second round.
- **b.** The two rounds are:
  - i. Rebuttal round

It consists of questions where the system asks 5 Questions and user would also ask 5 questions.

ii. Assessment round

It consists of a single question to go to the next round.

iii. Riddle round

It consist 5 questions and user has to answer them.

# 2. Code of the Project

Note: There 2 python files in this project

```
main.py
import mysql.connector as sq
import random as r
from mysql.connector import Error as sqlerror
from os import system
from time import sleep
from getpass import getpass
from admin import main admin menu
user points = 0
computer points = 0
random list = []
x = 1
def start_program():
    """The start of the program"""
    while True:
        system('cls')
        print("\n~~~~~~QUIZ INTERFACE ~~~~~~~")
        print("Press (0) to Log in as Admin")
        print("Press (1) to Play the Game")
        print("Press (2) to exit the program")
        user_input = input("Please Enter your choice : ")
        if user input == '0':
            login as admin()
        elif user input == '1':
            start rebuttal()
        else:
            exit_program()
def exit program():
    print("Thank You for using the program.")
    exit()
def login as admin():
    """This function handles the logging in of admin to the program"""
    conn = sq.connect(host='localhost', user='root',
                      password='student', database='quiz')
    cursor = conn.cursor()
    username input = input('Please Enter your username : ')
    cursor.execute(f"select * from admin_user where username = '{username_input}'")
    data = cursor.fetchone()
    if data == ():
```

```
print("The entered username does not exists in the database. Please contact
the developer")
        sleep(1)
        start program()
    else:
        password_input = getpass('Please Enter your password : ')
        if password input == data[2]:
            print('You have successfully logged in as admin')
            sleep(1.5)
            main admin menu()
        else:
            print(f"The entered password for the username <{username input}> is
invalid. Please try Again")
            sleep(1.5)
            start program()
def get questions():
    conn = sq.connect(host='localhost', user='root',
                      password='student', database='quiz')
    cursor = conn.cursor()
    cursor.execute("SELECT * FROM questions")
    data = cursor.fetchall()
    conn.close()
    return data
def append mistakes(question, given answer, correct answer):
    conn = sq.connect(host='localhost', user='root',
                      password='student', database='quiz')
    cursor = conn.cursor()
    cursor.execute(
        f"INSERT INTO mistakes VALUES
('{question}','{given answer}','{correct answer}')")
    conn.commit()
    conn.close()
    print(f"The question has been updated successfully. Thank you")
def start rebuttal():
    system('cls')
    print(f"\n>>>> ROUND 1 : REBUTALL QUIZ <<<<<\n")</pre>
    print(f"Rules :")
    print(f"1. This ROUND will consist of 10 questions")
    print(f"2. User and computer can ask questions one after another. Who get's the
higest points win's the game")
    print(f"3. You should not ask the same question twice")
    print(f"4. If the user qualifies ROUND 1. There will be a assessment question to
qualify for the FINAL ROUND")
```

```
print(f"5. If you're score is less than the computer, you are not eligible for
assessment")
    global x, user_points, computer_points, username
    username = input("\nEnter your name to start the game: ")
    if username == '' or username == '\n':
        print(f"You have not entered your name. You are not eligible to play this
game")
        print("Please start the game again")
        exit()
   while x <= 10:
        print(f"Question {x}: ")
        if x % 2 != 0:
            computer question()
        else:
            user question()
        x += 1
    else:
        print(f"### ROUND 1 COMPLETED ###")
        show points(user points, computer points)
        if user points > computer points:
            start assessment()
        else:
            print(f"\nYou did not qualify the REBUTTAL ROUND. Better Luck Next Time")
            exit()
def start assessment():
    print("The Riddle to get to the Final Round")
    conn = sq.connect(host='localhost', user='root',
                      password='student', database='quiz')
    cursor = conn.cursor()
    cursor.execute(f"SELECT * FROM assessment")
    data = cursor.fetchone()
    conn.close()
    print(f"\n*** ASSESSMENT QUESTION ***")
    print(f"\nQueston : {data[0]}")
    user answer input = input("Enter your answer : ")
    if user_answer_input.lower() == data[1].lower():
        print(f"\n#### CORRECT ANSWER ####")
        print("\nYou are qualified for the 'FINAL ROUND'")
        start_riddle()
```

else:

```
print(f"You didn't qualify the assessment. Better Luck Next Time")
        exit()
def start riddle():
    print(f"\n>>>> FINAL ROUND : Riddle Time <<<<<\n")</pre>
    print(f"Rules : ")
    print(f"1. This round will consit of 5 questions")
    print(f"2. Only the computer can ask questions and the user has to answer to the
question")
    r list = []
    user score = 0
    conn = sq.connect(host='localhost', user='root',
                      password='student', database='quiz')
    cursor = conn.cursor()
    cursor.execute(f"SELECT * FROM riddles")
    data = cursor.fetchall()
    conn.close()
    for i in range(5):
        random number = r.randint(1, len(data) - 1)
        if random number not in r list:
            r list.append(random number)
            print(f"Riddle {i+1}")
            print(f"{data[random number][0]}")
            user answer = input("Enter you answer : ")
            if user answer.lower() == data[random number][1].lower():
                print("\nCORRECT ANSWER")
                user score += 1
                print(f"{username} Score is {user score}")
            else:
                print(f"The Correct Answer is {data[random number][1]}")
                print(f"{username} Score is {user score}")
        else:
            continue
    print(f"You have completed the FINAL ROUND")
    final_score = user_points + 1 + user_score
    print(f"Your final score is {final_score}")
    print(f"Thank you for joining the Program")
    print(f"Have a nice day!!")
    exit()
```

```
QUIZ
```

```
def show_points(user, comp):
    global username
    print(f"\n{username} obtained {user} points")
    print(f"Computer obtained {comp} points\n")
def computer_question():
    global user points, computer points, random list
    data = get questions()
    while True:
        random number = r.randint(0, len(data) - 1)
        if random number not in random list:
            random list.append(random number)
            question = data[random number][0]
            answer = data[random number][1]
            print(f"\nComputer Turn to ask question\n")
            print(f"\nQuestion : {question}")
            user answer = input("\nEnter the answer for the question : ")
            if user answer.lower() == answer.lower():
                print(f"\nCorrect Answer")
                user points += 1
                show points(user points, computer points)
                return None
            else:
                computer points += 1
                print(f"\nWrong Answer")
                print(f"The Correct Answer is {answer}")
                user conf = input("Is the given answer correct (Y / N) : ")
                if user conf in ['y', 'Y']:
                    print(f"Thank you for your confirmation.")
                else:
                    print(f"You said that the given answer is wrong")
                    correct input = input("Please Enter the correct answer : ")
                    append mistakes(question, answer, correct input)
                    show_points(user_points, computer_points)
                return None
        else:
            continue
def user_question():
    global username, user_points, computer_points, random_list
    print(f"{username} Turn to ask question\n")
    question input = input("Enter your question : ")
    answer = get user answer(question input)
```

```
if answer:
        print(f"The answer to the question is {answer}")
        computer points += 1
    else:
        print(f"Couldn't find the answer to the question")
        user points += 1
        answer input = input(
            f"Enter the correct answer for the question asked : ")
        add question(question input, answer input)
    show points(user points, computer points)
def get user answer(user question):
    data = get questions()
    for question, answer in data:
        if question.lower() == user question.lower():
            return answer
    else:
        return None
def add question(question, answer):
    conn = sq.connect(host='localhost', user='root',
                      password='student', database='quiz')
    cursor = conn.cursor()
    if question == '' or question == '\n':
        pass
    else:
        try:
            cursor.execute(
                f"INSERT INTO questions VALUES ('{question}','{answer}')")
            conn.commit()
            print(f"\nThank you for the new question. I got some knowledge")
            conn.close()
        except sqlerror:
            print(f"\nAn error occurred couldn't add the question to the database")
            conn.close()
if __name__ == '__main__':
    start program()
```

## admin.py import mysql.connector as sq import random as r from prettytable import PrettyTable from mysql.connector import Error as sqlerror from os import system from time import sleep from getpass import getpass def print mistakes table(): """This function prints the mistakes table""" conn = sq.connect(host='localhost', user='root', password='student', database='quiz') cursor = conn.cursor() cursor.execute("select \* from mistakes") data = cursor.fetchall() table = PrettyTable() table.field\_names = ['Question', 'Given Answer', 'User Given Answer'] for row in data: table.add\_row(row) conn.close() return table def return questions data(): """Returns the prettytable of questions along with questions in dictionary format""" conn = sq.connect(host='localhost', user='root', password='student', database='quiz') cursor = conn.cursor() cursor.execute("select \* from questions") data = cursor.fetchall() table = PrettyTable() table.field\_names = ['Question', 'Answer'] questions = {} for q,a in data: table.add row([q,a]) questions[q] = aconn.close() return table, questions def correct append mistakes(): conn = sq.connect(host='localhost', user='root', password='student', database='quiz') cursor = conn.cursor() print("-- Mistakes table --") mistakes table = print mistakes table()

```
print(mistakes table)
    print('\n')
    sleep(1.5)
    print("-- Questions table --")
    table, questions dict = return questions data()
    print(table)
    question input = input("Enter the question to update it : ").lower()
    if question_input not in questions_dict:
        print("Please enter the complete question as in the table.")
        return None
    else:
        print('Press (1) to change the question')
        print('Press (2) to change the answer')
        change input = input("Please enter you choice : ")
        if change_input not in ['1','2']:
            print("You have entered an invalid choice. Please Try Again.")
        elif change input == '1':
            print("You chose to change the question.")
            new question input = input("Plese Enter the new question : ")
            confirm = input("Are you sure you want to update (Y / N) : ")
            if confirm in ['y','Y']:
                cursor.execute(f"update questions set question =
'{new_question_input}' where question = '{question input}'")
                conn.commit()
                print("YOU HAVE SUCCESSFULLY UPDATED THE QUESTION")
                print("You chose not to update the question.")
                return None
        elif change input == '2':
            print("You chose to change the answer for a question")
            new_answer_input = input("Please Enter the new answer : ")
            confirm = input("Are you sure you want to update (Y / N) : ")
            if confirm in ['y','Y']:
                cursor.execute(f"update questions set answer = '{new answer input}'
where question = '{question input}'")
                conn.commit()
                print("YOU HAVE SUCCESSFULLY UPDATED THE ANSWER FOR THE QUESTION")
            else:
                print("You chose not to update the answer of the questions.")
                return None
        else:
            pass
def delete question():
    """This function allows the admin user to delete the question from the questions
table"""
```

```
conn = sq.connect(host='localhost', user='root',
                      password='student', database='quiz')
    cursor = conn.cursor()
   table, questions = return questions data()
    print(table)
    sleep(1.5)
    question input = input("Enter the question to delete : ")
    if question input in questions:
        confirm input = input("Are you sure you want to delete the question (Y / N) :
")
        if confirm input.lower() == 'y':
            cursor.execute(f"delete from questions where question =
'{question input}'")
            conn.commit()
            print("\nThe question has been deleted successfully.")
            conn.close()
        else:
            print("You chose not to delete the question.")
            conn.close()
            return None
    else:
        print("The question was not found in the database. Please enter the question
as in the table")
        conn.close()
        return None
def clear mistakes table():
    """This function lets the admin user clears the mistakes table"""
    conn = sq.connect(host='localhost', user='root',
                      password='student', database='quiz')
    cursor = conn.cursor()
    table = print mistakes table()
    print(table)
    sleep(1.5)
    confirm input = input("Are you sure you want to delete the mistakes table (Y / N)
    if confirm input.lower() == 'y':
        cursor.execute("delete from mistakes")
        conn.commit()
        print("\n")
        print("Mistakes table has been successfully cleared.\n")
    else:
        print("You chose not to clear the mistakes table")
        conn.close()
        return None
def exit program():
    print("Thank You for using the program.")
    exit()
```

```
def main admin menu():
    """This function prints the admin menu and takes input from the user"""
    system('cls')
    while True:
        print("---- ADMIN MENU ----")
        print("Press (1) to append the mistakes in questions of ROUND 1")
        print("Press (2) to delete a question from questions table")
        print("Press (3) to clear the mistakes table")
        print("Press (4) to go the main menu")
        print("Press (5) to exit the program")
        admin_user_dict = {'1' : correct_append_mistakes,
                           '2' : delete_question,
                           '3' : clear_mistakes_table,
                           '5' : exit program}
        admin user input = input("Enter you choice : ")
        if admin user input in admin user dict:
            admin user dict[admin user input]()
        elif admin_user_input == '4':
            return None
        else:
            print("You have entered an invalid option. Please Try Again")
            continue
```

# 3. Output Screens

### **Starting screen**

```
Press (0) to Log in as Admin
Press (1) to Play the Game
Press (2) to exit the program
Please Enter your choice :
```

### Logging in as Admin

```
Please Enter your choice : 0
Please Enter your username : asrith
Please Enter your password :
You have successfully logged in as admin
```

#### Admin Menu

```
Press (1) to append the mistakes in questions of ROUND 1
Press (2) to delete a question from questions table
Press (3) to clear the mistakes table
Press (4) to go the main menu
Press (5) to exit the program
Enter you choice :
```

# Option 1: To append the mistakes in questions of ROUND 1

```
Enter the question to update it : who is the founder of linux Press (1) to change the question Press (2) to change the answer Please enter you choice : 2 You chose to change the answer for a question Please Enter the new answer : linus trovalds Are you sure you want to update (Y / N) : Y YOU HAVE SUCCESSFULLY UPDATED THE ANSWER FOR THE QUESTION
```

# Option 2: To delete a question from questions table

b i in which year sainik school kalikiri was founded j o q r	b i 2014 j o
i in which year sainik school kalikiri was founded j o q r	i   2014   j   o
in which year sainik school kalikiri was founded j o q r	2014   j   o
j o q r	j o
o q r	0
q r	
r	l q
	r
u	u
what is the nearest star to earth	sun
who invented git	linus trovalds
who invented python	guido van rossum
who is naval chief of staff of India	admiral karambir singh
who is the chief justice of india	justice sharad arvind bodbe
who is the current indian cricket team skipper	virat kohli
who is the first CDS of india	gen bipin rawat
who is the first indian women to join indian navy as a pilot	sub lt shivangi
who is the lt. governer of jammu and kashmir	g c murmu
who is the lt. governer of ladakh	r k mathur
у	у
Z	Z
	-+
nter the question to delete : b re you sure you want to delete the question (Y / N) : Y	

## Option 3: To clear the mistakes table

# **Option 1 in Main Menu (To play the game)**

#### Round one

```
Round 1 : Rebutall Quiz <<<<<
Rules :
1. This Round will consist of 10 questions
2. User and computer can ask questions one after another. Who get's the higest points win's the game
3. You should not ask the same question twice
4. If the user qualifies Round 1. There will be a assessment question to qualify for the FINAL ROUND
5. If you're score is less than the computer, you are not eligible for assessment
Enter your name to start the game: roashan</pre>
```

```
Enter your name to start the game: roashan
Question 1:
Computer Turn to ask question
Question : who invented git
Enter the answer for the question : linus trovalds
Correct Answer
roashan obtained 1 points
Computer obtained 0 points
Question 2:
roashan Turn to ask question
Enter your question : g
Couldn't find the answer to the question
Enter the correct answer for the question asked : g
Thank you for the new question. I got some knowledge
roashan obtained 2 points
Computer obtained 0 points
Question 3:
```

```
### ROUND 1 COMPLETED ###
roashan obtained 8 points
Computer obtained 2 points
```

If you don't qualify round one you can't attend round two

#### **Assessment round**

```
The Riddle to get to the Final Round

*** ASSESSMENT QUESTION ***

Queston: Which kind of fruit must have a large wedding ceremony with lots of people in attendance?

Enter your answer: can't elope

#### CORRECT ANSWER ####

You are qualified for the 'FINAL ROUND'
```

If you fail to answer the question your quiz will be completed.

# Final round(riddle round)

Riddle 1

Born in an instant, I tell all stories. I can be lost, but I never die. What am I?

Enter you answer : memories

CORRECT ANSWER roashan Score is 1

Riddle 2
What word in the English language does the following: the first two letters signify a male, the first three letters signify a female, the first four letters signify greatness, while the entire world signifies a great woman.
Enter you answer: heroine

CORRECT ANSWER roashan Score is 3 You have completed the FINAL ROUND Your final score is 12 Thank you for joining the Program Have a nice day!!

# QUIZ 4. BIBLIOGRAPHY

- 1. Computer Science with Python [Textbook XII] by Sumita Arora
- 2. https://ptable.readthedocs.io/en/latest/
- 3. https://docs.python.org/3/library/getpass.html