DEPARTMENT OF COMPUTER & INFORMATION SYSTEMS ENGINEERING
BACHELORS IN COMPUTER SYSTEMS ENGINEERING
Course Code: CS-115
Course Title: Computer Programming
Complex Engineering Problem
FE Batch 2021, Fall Semester 2021
Grading Rubric
TERM PROJECT

Group Members:

Student No.	Name	Roll No.
S1	MUHAMMAD JAN	CS-19302
S2	MUSFIRAH FAYYAZ	CS-19303
S3	FASEEH U REHMAN	CS-19304

CRITERIA AND SCALES				Marks Obtained		
				S1	S2	S3
Criterion 1: Does the application meet the desired specifications and produce the desired outputs? (CPA-1, CPA-3)						
1	2	3	4			
The application does not meet the desired specifications and is producing incorrect outputs.	The application partially meets the desired specifications and is producing incorrect or partially correct outputs.	The application meets the desired specifications but is producing incorrect or partially correct outputs.	The application meets all the desired specifications and is producing correct outputs.			
Criterion 2: How well is the code organization?						
1	2	3	4			
The code is poorly organized and very difficult to read.	The code is readable only to someone who knows what it is supposed to be doing.	Some parts of the code are well organized, while some parts are difficult to follow.	The code is well organized and very easy to follow.			

Criterion 3: How friendly is the application interface? (CPA-1, CPA-3)						
1	2	3	4			
The application interface is difficult to understand and use.	The application interface is easy to understand but not that comfortable to use.	The application interface is very easy to understand and use.	The application interface is very interesting/ innovative and easy to understand and use.			
Criterion 4: How does the student perform individually and as a team member? (CPA-2, CPA-3)						
1	2	3	4			
The student did not work on the assigned task.	The student worked on the assigned task, and accomplished goals partially.	The student worked on the assigned task, and accomplished goals satisfactorily.	The student worked on the assigned task, and accomplished goals beyond expectations.			
Criterion 5: Does the report adhere to the given format and requirements?						
1	2	3	4			
The report does not contain the required information and is formatted poorly.	The report contains the required information only partially but is formatted well.	The report contains all the required information but is formatted poorly.	The report contains all the required information and completely adheres to the given format.			
			Total Marks:			

_____
Teacher's Signature

Contents

1. PROBLEM DESCRIPTION

Quiz Game is an application in which a user takes a quiz and views his/her performance at the end. The application allows the user to select a knowledge area on which he/she wants to take the quiz. Questions in a specific knowledge area can also be viewed or added by the admin of the application.

2. DISTINGUISHING FEATURES

General paper based exam system costs time,resources etc. This application will give flexibility to users. It's very easy to use. Users can appear in a quiz from anywhere in the world. There's no interaction with pencil and paper.

3. FLOW OF THE PROJECT

Quiz is started by displaying four options each based on selected knowledge area i-e science or general knowledge. If the answer is correct, the score is incremented by one and no negative marking for wrong answers. Final scores will be displayed at the end.

4. MOST CHALLENGING PART WHILE WORKING

- Adding new questions with admin login without using a database.
- Using text files instead of xlsx for question bank.

5. ANY NEW THING LEARNT IN PYTHON WHILE WORKING

- Dealing with python's data structures i-e tuples and dictionaries.
- Dealing with python file handling.

6. INDIVIDUAL CONTRIBUTION

All the members have contributed equally. As the project was done virtually using zoom.

7. FUTURE EXPANSIONS

- Graphical enhancement will surely be a part of future planning where the interface can be enriched later.
- Module of registered users to attempt the quiz.

8. LIST OF REFERENCES

https://sheir.org/edu/mcqs/general-knowledge/
https://www.radiotimes.com/quizzes/pub-quiz-science/
https://www.examtiger.com/general-science-gk-mcq

9. TEST CASES OF TESTING

9.1 TEST CASE NAME: Login

- **INPUT:** Enter required details for login
- **ACTUAL OUTCOME:** Login successfully
- **EXPECTED OUTCOME:** Login successfully
- **RESULT:** Pass

9.2 TEST CASE NAME: Add Questions

- **INPUT:** Enter question you want to add
- **OUTCOMES:** Question added successfully
- **EXPECTED OUTCOMES:** Question added successfully
- **RESULT:** Pass

9.3 TEST CASE NAME: View Questions

- **INPUT:** Select questions category you want to view
- **OUTCOMES:** List of all questions related to selected domain appear
- **EXPECTED OUTCOMES:** List of all questions related to selected domain appear
- **RESULT:** Pass

```
Assalam o Alaikum & Welcome to our quiz app!
What you would like to do?
        A. Take a quiz
        B. Manage questions
Enter your choice as A or B:
B
Enter Admin Password:
Admin
You have successfully signed in as ADMIN
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choose subject you want to manage:
        A. General Knowledge
        B. Science
        C. Logout
Enter your option as A or B:A
What you want to do?
        A. View Questions
        B. Add Questions
        C. Back
Enter your choice as A or BB
Enter question now
Which flower is national flower of Pakistan?
Enter your multiple choices:
Please enter your options like 'A. xyz'
Enter option 1
A. Jasmine
Enter option 2
B. Rose
Enter option 3
C. Sun flower
Enter option 4
D. Tulip
Enter correct option
A
Question Added Successfully!
```

```
What you want to do?
        A. View Questions
        B. Add Questions
        C. Back
Enter your choice as A or BA

How many bones are in the human body? --> A

What does DNA stands for? --> B

Hardest Natural substance on Earth? --> A

Concept of gravity was discovered by --> D

What is the study of mushrooms called? --> C

At what temperature are Celsius and Fahrenheit equal? --> B

Roughly how long does it take for the sun's light to reach Earth? --> A

Which of the following is used in pencils? --> D

Which blood cells are called 'Soldiers' of the body? --> C

Which of the following is not a primary colour? --> B
```