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	ANSHARA AYAZ SIDDIQUI	CS-83
S2	MUHAMMAD ALI	CS-103
S3	ABDUL BASIT SIDDIOUI	CS-105

CRITERIA AND SCALES						Marks Obtained		
CRITERIA AND SCA	LES			S1	S2	S3		
Criterion 1: Does the ap	plication meet the desired sp	pecifications and produce t	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 part of the code is well organized, while some part is difficult to follow.	The code is well organized and very easy to follow.					
Criterion 3: How friend	y is the application interfac	e? (CPA-1, CPA-3)						
1	2	3	4					
The application interface is difficult to understand and use.	The application interface is easy to understand and 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 t	he student performed indivi	dually and as a team mem	ber? (CPA-2, CPA-3)					
The student did not work on the assigned task.	The student worked on the assigned task, and accomplished goals	The student worked on the assigned task, and accomplished goals	The student worked on the assigned task, and accomplished goals					
on the assigned task.	partially.	satisfactorily.	beyond expectations.					
Criterion 5: Does the rea	port adhere to the given form	·	1 * 1					
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:					

COMPUTER PROGRAMMING PROGECT

Group ID: 29 Members: CS-83, CS-103, CS-105

Problem Description:

To develop a software application of Quiz game in python using the basic concept and structures of computer programming.

Distinguishing Features of Our Project:

Distinguishing features are:

- We have added three domains in which user can play the Quiz Game.(Math, General knowledge, Computer Science)
- Each question carries one mark, if wrong or invalid option is given then it is treated as wrong.
- For accessing ADMIN part you have to enter the correct password.
- Admin can VIEW, ADD, REMOVE, REPLACE a particular question by just entering the Question number.
- Admin can also change the Password.

Flow of The Project:

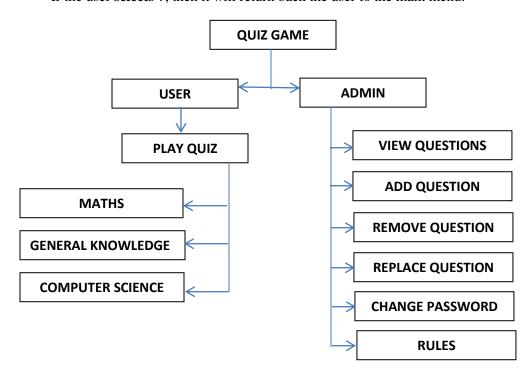
At first, the Quiz Application ask the user in which category user want to start the application whether the user wants to enter in domain of **PLAYER**, to test his skills, or as **ADMIN**, or whether wants to play the game or not, means **EXIT**.

If the user selects **PLAYER** domain, then he simply needs to enter his name and has to choose the category of quiz. One Question will be displayed at a time with three options. The player is instructed to select the correct answer within the range of option otherwise your Answer will be mark as WRONG. After choosing the option, the program gives the remarks. If you have chosen the correct option then then it will print **CORRECT ANSWER!!** And for wrong option it will print **WRONG** with **correct option**. This process follows in each question one after another. As soon as all 10 Questions are completed then the **TOTAL SCORE** along with the **REMARKS** will be printed on screen. Then the player will then get the option either he again wants to play the game or return back to **MAIN MENU** of the Quiz Application.

If the User selects **ADMIN** domain, then he needs to enter the Password. If the User doesn't enter the correct Password, then he receives a message **PLEASE!!! Enter Correct Password.** If you entered correct then you have 7 options to perform some tasks as admin. The options are:

- 1) View Questions
- 2) Add Questions
- 3) Remove a Question

- 4) Replace a Question
- 5) RULES/GUIDE
- 6) Change Password
- 7) BACK
- If the user **selects 1**, then the Application will show the user all the Questions of the chosen category. The Question can be viewed along with the options and the correct answer. Then after enter any key user return back to the main menu of the ADMIN.
- If the user **selects 2**, then the Application will show the user in which domain he wants to add the New Questions. For this it will ask the user at what point he wants to add a Question, then it will ask for the new Question he wants to add and also its options and the correct answer. After pressing the Enter your Question will be added to your selected domain.
- If the user **selects 3**, then the Application will show the user in which domain he wants to remove the Question. For this it will ask the user Which Question number he wants to remove. After pressing the Enter program show a message **The Below Question is Removed** and print the question, and return to the main menu of ADMIN interface.
- If the user **selects 4**, then the Application will show the user in which domain he wants to replace the Question. For this it will ask the user Which Question he wants to replace, then it will show the removed question and ask for new replacement question, also its options and the correct answer. After pressing the Enter your Question will be successfully replaced to your selected domain.
- If the user **selects 5**, then the Application will show the Rules or Guide related to the Question. How to add, remove, replace, question adding format etc.
- If the user **selects** 6, then it will Ask the user to **Enter New Password** after entering new password it will show you a message **You have successfully change the Password**.
- If the user **selects** 7, then it will return back the user to the main menu.



Challenging Part Of Our Project:

The first challenging part of our project is the concept of filing, as we have to read and write back the question in the files. Also replacing functionality of ADMIN was a little tough to understand and to mix the concepts of both adding and removing question. Another challenging part was to ensure the user to give him the option of getting back to previous interface. Also we first decided to add GUI but then we realize that it need a lot of time to understand the concept so we drop that idea.

Things To Learn:

Basically it was our first big project as we not done such big problem before so it helped us to increase the vision of our mind to think what will be the result of the code we are writing. It also clears our concept of filing. We explore those functions which we never use before, at first, ideas and concepts of coding feel abstract. Then, once we've begun to grasp the basics, We start implementing those techniques and methods in our Quiz Application. With trial and error in coding, We find ourselves tinkering with our code and resolving issues .The lesson we learn along the way helps to solidify our understanding and grow your skills

Individual Contribution:

Our whole group contributes about equally in the project, we mostly tried to complete or work in the project at the university. Each participant apply his logic in the particular part of the code then we decided which approach is better to implement.

Future Expansion:

In future we will implement GUI in our program. Also we will add more domains and questions in our quiz and also add a Timer and Difficulty level.

Screenshots:

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Welcome Admin

Select What you want to do

1) Yiew Questions
2) Add Questions
3) Remove a Question
4) Replace a Question
5) RULES/GUIDE
6) Change Password
7) BACK

Enter Option Number: 2

1) MATHS
2) GENERAL KNOWLEDGE
3) COMPUTER SCIENCE

Enter Category Option: 1
Enter where you want to add Question: 11
Enter option 1 (with "1)" ): 1) 14
Enter Option 2 (with "2)" ): 2) 17
Enter Option 3 (with "3)" ): 3) 13
Enter Option 3 (with "3)" ): 3) 13
Enter Correct Option No.: 3

Press any Key to Return

LOGIN SUCCESSFUL

Welcome Admin
Select What you want to do
1) Yiew Questions
2) Add Questions
3) Remove a Question
4) Replace a Question
5) RULES/GUIDE
6) Change Password
7) BACK
Enter Option Number:
```

```
Welcome Admin

Select What you want to do

1) View Questions
2) Add Questions
3) Remove a Question
4) Replace a Question
5) RULES/GUIDE
6) Change Password
7) BACK

Enter Option Number: 2

1) MATHS
2) GENERAL KNOWLEDGE
3) COMPUTER SCIENCE

Enter Category Option: 1
Enter where you want to add Question: 11
Enter Question (with Qno): Q:11 what is square root to 169?
Enter Option 1 (with "1"): 1) 14
Enter Option 2 (with "2"): 2) 17
Enter Option 3 (with "3"): 3) 13
Enter Correct Option No.: 3

Press any Key to Return

LOGIN SUCCESSFUL

Welcome Admin

Select What you want to do
1) View Questions
3) Remove a Question
4) Replace a Question
5) RULES/GUIDE
6) Change Password
7) BACK

Enter Option Number:
```