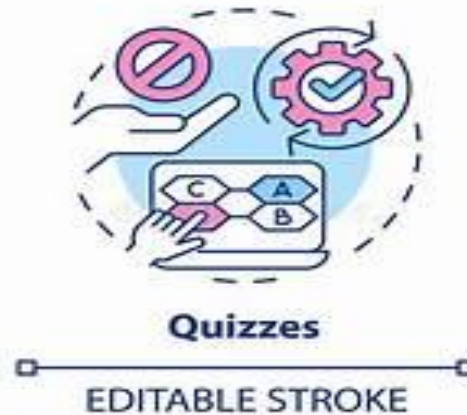


ONLINE QUIZ TEST SYSTEM

MINI PROJECT USING C LANGUAGE



Introduction

The Online Quiz Test System is a C language based application that conducts a quiz by selecting random questions from a question bank and evaluating user responses.



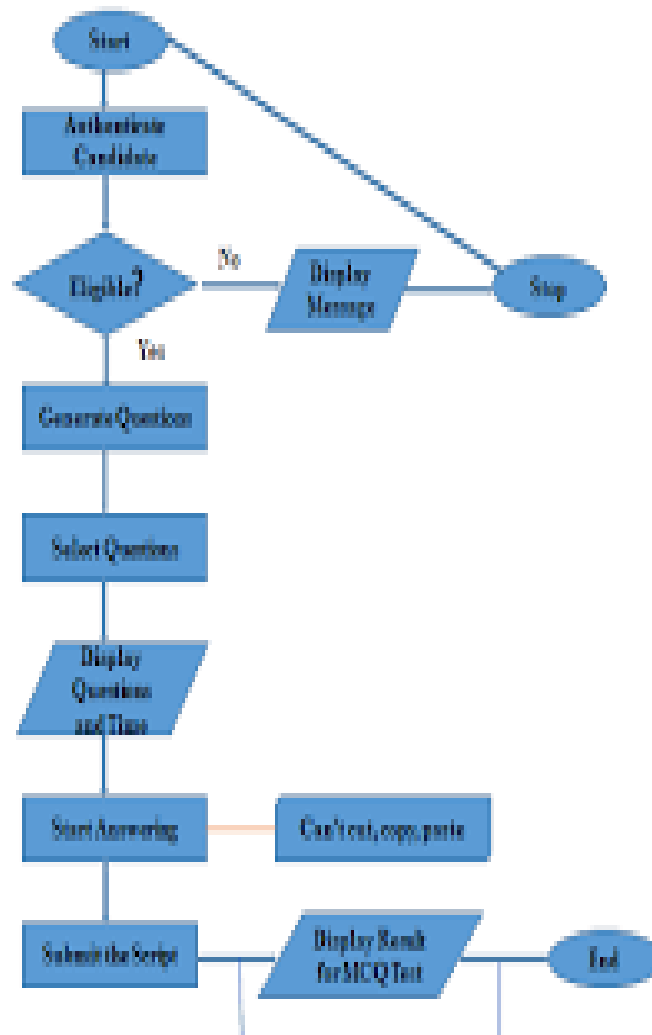
Objectives

- Design a quiz application using C
- Randomly select questions
- Evaluate answers and calculate score
- Understand modular programming

Software Requirements

- Programming Language: C
- Compiler: GCC / Turbo C
- OS: Windows / Linux





Module Division

Member 1: Question Bank & Structure

Member 2: Random Question Selection

Member 3: Answer Checking & Scoring

Member 4: User Interface & Integration

Algorithm

1. Start
2. Initialize question bank
3. Generate random questions
4. Display question
5. Accept answer
6. Validate & update score
7. Display result
8. End

// Member 1: Question Structure and Question Bank

```
struct Question {  
    char question[200];  
    char options[4][50];  
    int correctOption;  
};
```

```
struct Question questionBank[5] = {  
    {  
        "What is the capital of India?",  
        {"Mumbai", "Delhi", "Chennai", "Kolkata"},  
        2  
    },  
    {  
        "Which language is used for system programming?",  
        {"Java", "Python", "C", "HTML"},  
        3  
    },  
    {  
        "Who is the father of C language?",  
        {"Dennis Ritchie", "Bjarne Stroustrup", "James Gosling", "Guido Rossum"},  
        1  
    },  
    {  
        "Who is the father of C++ language?",  
        {"Bjarne Stroustrup", "James Gosling", "Guido Rossum", "Dennis Ritchie"},  
        2  
    },  
    {  
        "Which language is used for web development?",  
        {"Python", "C", "HTML", "Java"},  
        3  
    }  
};
```

"Which symbol is used for pointer in C?",

{"*", "&", "#", "%"},

1

},

{

"What is the size of int (typically)?",

{"2 bytes", "4 bytes", "8 bytes",

"Depends"},

2

}

};

int getRandomQuestion(int used[], int total) {

int index;

do {

index = rand() % total;

} while (used[index] == 1);

used[index] = 1;

return index;

}

```
int checkAnswer(int userAnswer, int correctAnswer)
{
    if (userAnswer == correctAnswer) {
        printf("Correct!\n");
        return 1;
    } else
    {
        printf("Wrong! Correct answer is option %d\n", correctAnswer);
        return 0;
    }
}
```

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
```

```
int getRandomQuestion(int used[], int total);
int checkAnswer(int userAnswer, int correctAnswer);
```

```
struct Question {
    char question[200];
    char options[4][50];
    int correctOption;
};
```

```
extern struct Question questionBank[5];
```

```
int main() {
```

```
    int totalQuestions = 5;
```

```
    int used[5] = {0};
```

```
    int score = 0;
```

```
    int userAnswer;
```

```
    srand(time(0));
```

```
    printf("==== ONLINE QUIZ TEST ====\n");
```

```
    for (int i = 0; i < totalQuestions; i++) {
```

```
        int qIndex = getRandomQuestion(used, totalQuestions);
```

```
        printf("\nQ%d. %s\n", i + 1, questionBank[qIndex].question);
```

```
        for (int j = 0; j < 4; j++) {
```

```
            printf("%d. %s\n", j + 1, questionBank[qIndex].options[j]);
```

```
        }
```

```
printf("Enter your answer (1-4): ");
scanf("%d", &userAnswer);

score += checkAnswer(userAnswer,
questionBank[qIndex].correctOption);
}

printf("\n===== QUIZ COMPLETED =====\n");
printf("Final Score: %d / %d\n", score, totalQuestions);

return 0;
}
```

Sample output:

===== ONLINE QUIZ TEST =====

Q1. What is the capital of India?

1. Mumbai
2. Delhi
3. Chennai
4. Kolkata

Enter your answer (1-4): 2

Correct!

===== QUIZ COMPLETED =====

Your Score: 4 / 5

Advantages

- User friendly
- Randomized questions
- Fast execution
- Easy to extend

Thank You

Submitted By:

PRANATHI (25A31A0484)

RAJESWARI (25A31A0482)

LALITHA (25A31A0483)

REVATHI (25A31A0485)