Mini Project On

Programming Quiz

Name: Sanyukta Yadav
Branch : Computer Engineering
SFID: 105513

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Problem Statement

Programming Quiz is a quiz for programming languages (C, Java, SQL, and Python). The guest user will be able to give the quiz. The questions are read from a csv file. 5 questions for each section are available. Users can select the programming language and can give the quiz. Marks will be displayed. If he/she selects Report, he/she will get their own progress bar for each section.

Requirements:

Software Requirements:

Operating System (Windows 10)
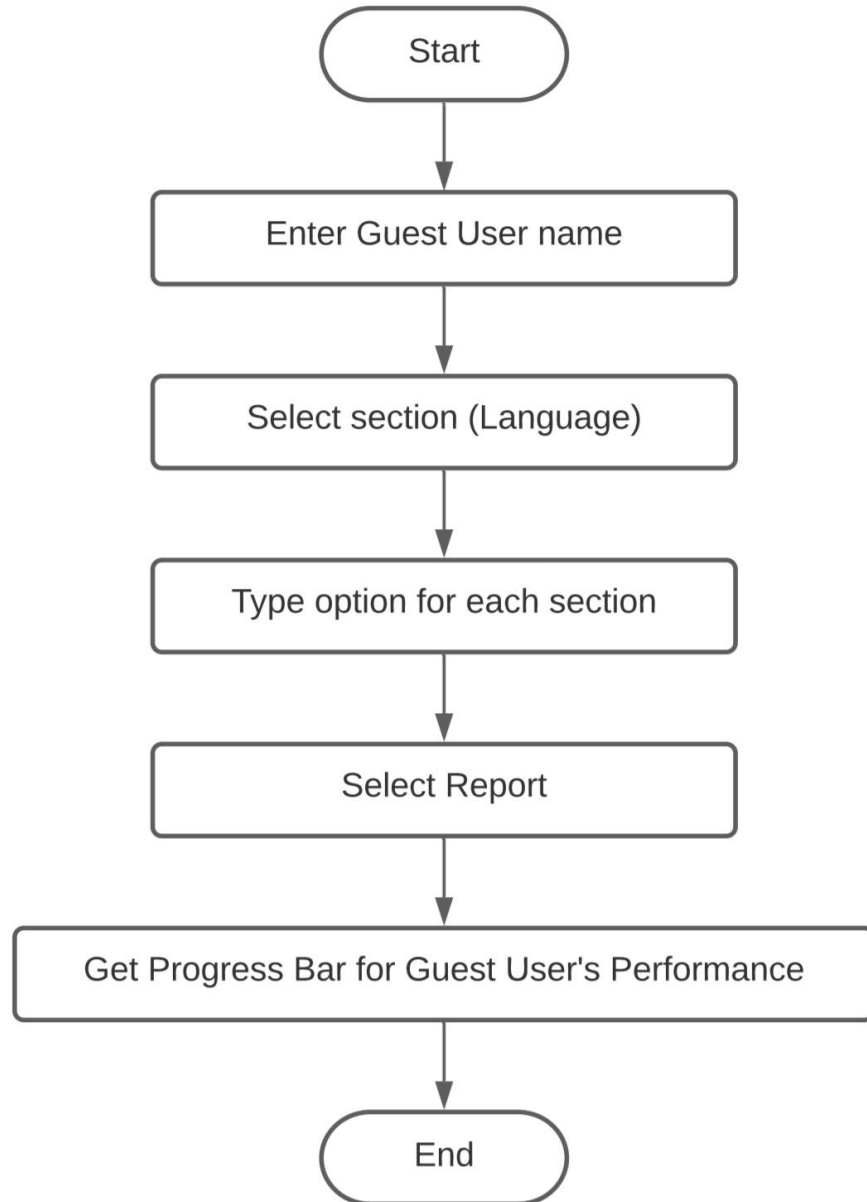Code blocks (IDE for C)

Hardware Requirements:

RAM 4MB
HD 512 GB
Processor Intel i5

Design:-

The guest user will first enter his/her name. Then he/she will select a section (from C, Python, SQL, C++). He/she will get five questions for the selected section. He/she will type the option. He/she can select Report. In report he/she will get the progress bar for each section as per the performance.

```
          ┌───────────┐
          │   Start   │
          └───────────┘
                │
                ▼
   ┌──────────────────────────┐
   │   Enter Guest User name  │
   └──────────────────────────┘
                │
                ▼
   ┌──────────────────────────┐
   │  Select section (Language)│
   └──────────────────────────┘
                │
                ▼
   ┌──────────────────────────┐
   │ Type option for each section│
   └──────────────────────────┘
                │
                ▼
   ┌──────────────────────────┐
   │      Select Report       │
   └──────────────────────────┘
                │
                ▼
┌─────────────────────────────────────────┐
│ Get Progress Bar for Guest User's Performance│
└─────────────────────────────────────────┘
                │
                ▼
          ┌───────────┐
          │    End    │
          └───────────┘
```

Test Cases:

Test Case ID	Test Case Description	Expected Result
T001	Check reading and accessing file containing questions and answers	File accessed and read
T002	Check user input for each question getting scanned	Scanned input
T004	Check each correct/wrong answer	Show answer Correct/Wrong
T003	Check marks for each section	Accurate marks for each section
T004	Check total marks for all sections	Accurate sum of total marks

Future Scope:
We can add more sections.

We can create the project more interactive by adding a radio button gui.

We can give graph reports for each section to the guest user.

Conclusion:
Thus, I learned file reading and many more concepts in C.

The program is working correctly. The correct marks and answers are getting tracked. The correct progress bar is displayed to the guest user.