**To:** Professional Julian Costa

**From:** Sarit Himthani

**Date:** May 1, 2024

**Subject:** IS 612 Final Project Report

**Executive Summary:**

This project involves the development of a Python program designed to conduct a quiz on web APIs. The program aims to assess participants' knowledge of fundamental concepts in web development, including HTTP methods, RESTful APIs, Python libraries, and related terminology.

**Users:**

This program can be used by students studying Computer science or information systems at a graduate or undergraduate level, It can also be used by professionals working in an IT or software industry to expand their knowledge of cloud computing concepts or learn the basics of the program can be very useful for the general audience who are interested in pursuing something in the IT field, this can provide a smooth transition to cloud computing and while integrating or consuming Web API’s.

**Correlation to Curriculum:**

Cs 661 – Python Programming, CS 641 – Mobile Web Content and Development

**Integrated Development Environment:**

Used Visual Studio Code to write down this program and test it parallelly.

**Outline of Program:**

The program begins by importing necessary modules and defines a **Question** class to represent quiz questions. It then executes the quiz using the **run\_quiz** function, which displays questions, evaluates user responses, and provides immediate feedback. Finally, it displays the user's final score. This structured approach ensures clarity and coherence in the program's functionality.

**Instructions:**

To guide users through the quiz, follow these steps:

1. **Launch the Quiz Program:**

Run the Python script that contains the quiz program.

1. **Read the Introduction:**

Upon launching the program, users will be presented with an introduction to the quiz, including its title and purpose.

1. **Answer the Questions:**

Users will be prompted with each quiz question, along with multiple-choice options.

Input the letter corresponding to the chosen answer (e.g., "a," "b," "c," or "d").

1. **Receive Immediate Feedback:**

After selecting an answer, users will receive immediate feedback on whether their choice was correct or incorrect.

Correct answers are indicated, while incorrect answers prompt that your answer is wrong.

1. **Repeat for 19 more Questions:**

Proceed through the quiz by answering each question in turn.

Continue receiving feedback after each response.

1. **View Final Score:**

Once all questions have been answered, users will be presented with their final score.

The score reflects the number of correct answers out of the total questions in the quiz.

**Recommendations:**

To enhance the project, I would consider adding:

* Timer functionality for questions to add a time pressure element.
* Implementing a graphical user interface (GUI) for a more intuitive user experience.

**Project Flowchart:**

Please see attached.

**Appendices:**

Flowchart

**For more information about this program, please contact:**

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