

### Summary

Develop a MCQ (multiple-choice question) Quiz application using Python, Langchain, and Streamlit, where users can interactively participate in quizzes on a topic they choose. The quiz needs to be generated using the OpenAI Chat Completion API.

### Timeline

You have 48 hours to complete this assignment.

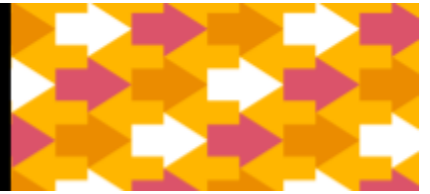
### Key Requirements

1. Design and Implement Application Logic:
  - a. Utilize Python for backend logic.
  - b. Integrate Langchain and OpenAI Chat Completion API for dynamic quiz question and answer generation.
  - c. Ensure the system generates questions and answers based on the user's topic of interest.
  - d. Ensure the logic covers question generation, answer options, and identification of the correct answer.
2. Develop Front-End Interface:
  - a. Use Streamlit to create a user-friendly interface.
  - b. Implement features for users to input their preferred quiz topic and number of questions.
  - c. Design the quiz presentation and answer submission functionalities. The quiz should consist of a set of questions and answers. Each question should have at least 4 answers, from which the user must select at least one to proceed. Once all the questions are answered, the user can submit the quiz.
  - d. Upon submission of the quiz, the user should be able to see their score and identify the correct answers.
3. Documentation:
  - a. Document the development process, including code documentation and a user guide.



# Assignment

AI Powered Quiz Generator



## Deliverables

1. A fully functional quiz application with source code.
2. Documentation covering the design, implementation details, and user guide.
3. Github repository link with the code.

## APIs Access

1. OpenAI Chat Completion API
  - API Reference: <https://platform.openai.com/docs/overview>
  - API Key: sk-UP0L4PMEtenPnlzzfZUKT3BibkFJIOdG7FaTcQCw8J8gS7Ep

## Submission Process

1. Zip all the deliverables into a single file.
2. Send an email with the file to
  - [vikhyat.rawla@pwc.com](mailto:vikhyat.rawla@pwc.com)
  - [kiran.k@pwc.com](mailto:kiran.k@pwc.com)
  - [mohini.vijay@pwc.com](mailto:mohini.vijay@pwc.com)
  - [noor.al-shayeb@pwc.com](mailto:noor.al-shayeb@pwc.com)
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