Documentation about AI MCQs Quiz Generator.

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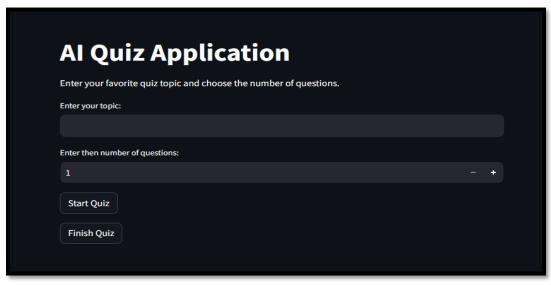
GitHub link: Github repositry
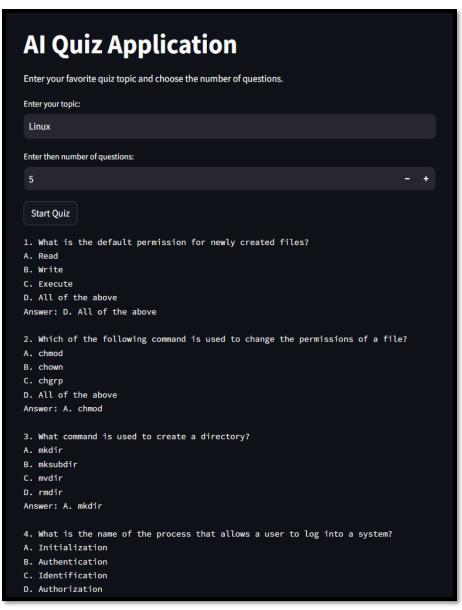
1) Back-end Code:

```python
from langchain.llms import OpenAI
from langchain.prompts import PromptTemplate
from langchain.chains import LLMChain

OPENAI_API_KEY = "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"

def quiz_Questions(quizTopic, qtionsNumbers):
    my_llm = OpenAI(api_key= OPENAI_API_KEY ,temperature=0.7)

    my_template = PromptTemplate(
        input_variables=["quizTopic", "qtionsNumbers"],
        template='''The user wants to take the quiz to check if he understood his subject well before his final exam.
        The user will choose to take the quiz upon his interest {quizTopic} and will choose how many numbers of {qtionsNumbers}
        he wants to be shown once the quiz starts. Generate MCQs based on the user's interest topic and how many
        questions he wants, after that show the correct answers.'''
    )

    my_chain = LLMChain(llm=my_llm, prompt=my_template, output_key='qtionsNumbers')
    response = my_chain({'quizTopic': quizTopic, 'qtionsNumbers': qtionsNumbers})

    return response
```

```python
import quiz_app as qa
import streamlit as sl

sl.title("AI Quiz Application")
sl.write("Enter your favorite quiz topic and choose the number of questions.")


userTopic = sl.text_input("Enter your topic:")
numQuestions = 0
numUniqueKey = "number of questions key"

while numQuestions <= 0:
    numQuestions = int(sl.number_input("Enter then number of questions:", min_value= 1, step = 1, key = numUniqueKey))
    if numQuestions >= 0:
        break

start_quiz_key = "start_quiz_key"
startQuiz = sl.button("Start Quiz", key = start_quiz_key)

if startQuiz:
    results = qa.quiz_Questions(userTopic, numQuestions)
    sl.text(results['qtionsNumbers'])

finish_quiz_key = "finish_quiz_key"
finishQuiz = sl.button("Finish Quiz", key = finish_quiz_key)

if finishQuiz:
    sl.write("Quiz Completed.")
```

2) User Interface (UI):

AI Quiz Application

Enter your favorite quiz topic and choose the number of questions.

Enter your topic:

Linux

Enter then number of questions:

5

Start Quiz

```
1. What is the default permission for newly created files?
A. Read
B. Write
C. Execute
D. All of the above
Answer: D. All of the above

2. Which of the following command is used to change the permissions of a file?
A. chmod
B. chown
C. chgrp
D. All of the above
Answer: A. chmod

3. What command is used to create a directory?
A. mkdir
B. mksubdir
C. mvdir
D. rmdir
Answer: A. mkdir

4. What is the name of the process that allows a user to log into a system?
A. Initialization
B. Authentication
C. Identification
D. Authorization
```

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```
      B. Write
      C. Execute
      D. All of the above
      Answer: D. All of the above

      2. Which of the following command is used to change the permissions of a file?
      A. chmod
      B. chown
      C. chgrp
      D. All of the above
      Answer: A. chmod

      3. What command is used to create a directory?
      A. mkdir
      B. mksubdir
      C. mvdir
      D. rmdir
      Answer: A. mkdir

      4. What is the name of the process that allows a user to log into a system?
      A. Initialization
      B. Authentication
      C. Identification
      D. Authorization
      Answer: B. Authentication

      5. What does the 'whoami' command do?
      A. Show who is logged in
      B. Show the current working directory
      C. Show the current user
      D. Show the current group
      Answer: C. Show the current user
```

Finish Quiz

AI Quiz Application

Enter your favorite quiz topic and choose the number of questions.

Enter your topic:

```
Linux
```

Enter then number of questions:

```
5                                                                    −    +
```

Start Quiz

Finish Quiz

Quiz Completed.