

Documentation about AI MCQs Quiz Generator.

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GitHub link: <https://github.com/Anas-AQ/AI-MCQs-Quiz-Generator>

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1) Back-end Code:

```
rminal  Help  ← →  ai_quiz_app

quiz_app.py ×  quiz_main_page.py

quiz_app.py > quiz_Questions
1  from langchain.llms import OpenAI
2  from langchain.prompts import PromptTemplate
3  from langchain.chains import LLMChain
4
5  OPENAI_API_KEY = "sk-TcBFMPc1j3icJABk3ufMT3B1bkFJgLwedYNIekxaQQDgnyvL"
6
7  def quiz_Questions(quizTopic, qtionsNumbers):
8      my_llm = OpenAI(api_key= OPENAI_API_KEY ,temperature=0.7)
9
10     my_template = PromptTemplate([
11         input_variables=["quizTopic", "qtionsNumbers"],
12         template='''The user wants to take the quiz to check if he understood his subject well before his final exam.
13         The user will choose to take the quiz upon his interest {quizTopic} and will choose how many numbers of {qtionsNumbers}
14         he wants to be shown once the quiz starts. Generate MCQs based on the user's interest topic and how many
15         questions he wants, after that show the correct answers.'''
16     ])
17
18     my_chain = LLMChain(llm=my_llm, prompt=my_template, output_key='qtionsNumbers')
19     response = my_chain({'quizTopic': quizTopic, 'qtionsNumbers': qtionsNumbers})
20
21     return response
22
```

```
quiz_main_page.py > ...
1  import quiz_app as qa
2  import streamlit as st
3
4  st.title("AI Quiz Application")
5  st.write("Enter your favorite quiz topic and choose the number of questions.")
6
7
8  userTopic = st.text_input("Enter your topic:")
9  numQuestions = 0
10 numUniqueKey = "number of questions key"
11
12 while numQuestions <= 0:
13     numQuestions = int(st.number_input("Enter then number of questions:", min_value= 1, step = 1, key = numUniqueKey))
14     if numQuestions >= 0:
15         break
16
17 start_quiz_key = "start_quiz_key"
18 startQuiz = st.button("Start Quiz", key = start_quiz_key)
19
20 if startQuiz:
21     results = qa.quiz_Questions(userTopic, numQuestions)
22     st.text(results['qtionsNumbers'])
23
24 finish_quiz_key = "finish_quiz_key"
25 finishQuiz = st.button("Finish Quiz", key = finish_quiz_key)
26
27 if finishQuiz:
28     st.write("Quiz Completed.")
29
```

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2) User Interface (UI):

AI Quiz Application

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

Enter your topic:

Enter then number of questions:

-+

Start Quiz
Finish Quiz

AI Quiz Application

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

Enter your topic:

Enter then number of questions:

-+

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. mmdir
- 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.