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# Root Route

## GET /

Root route. This is a placeholder to demonstrate error handling.

Example Request:

GET http://localhost:5000/

# Generate Quiz

## GET /generatequiz

Adds the OpenAI-generated quiz to the database and returns it as JSON.

Example Request:

GET http://localhost:5000/generatequiz

# Get All Users

## GET /getallusers

Retrieves all users from the database in JSON format.

Example Request:

GET http://localhost:5000/getallusers

# Get User by Login ID

## GET /getuser/{loginid}

Retrieves specific user information by login ID using route parameters.

Required Parameters:

• loginid: The login ID of the user.

Example Request:

GET http://localhost:5000/getuser/fredkhan

# GET /getuser

Retrieves specific user information by login ID using query parameters.

Required Parameters:

• loginid: The login ID of the user.

Example Request:

GET http://localhost:5000/getuser?loginid=fredkhan

# Add User

## POST /adduser

Inserts a user record into the quiz users table.

Required Parameters:

• loginid: The login ID of the user.

• firstname: The first name of the user.

• lastname: The last name of the user.

Example Request:

POST http://localhost:5000/adduser?loginid=anhnguyen&firstname=anh&lastname=nguyen

# Check Answer

## GET /checkanswer

Checks if the given answer for a question is correct.

Required Parameters:

• questionid: The ID of the question.

• optionname: The option name chosen for the question.

Example Request:

GET http://localhost:5000/checkanswer?questionid=21&optionname=b

# Add History

## POST /addhistory

Inserts a record into the quiz history table.

Required Parameters:

• loginid: The login ID of the user.

• questionid: The ID of the question.

• optionname: The option name chosen for the question.

Example Request:

POST http://localhost:5000/addhistory?loginid=anhnguyen&questionid=11&optionname=d

# Get All Quiz

## GET /getallquiz

Retrieves all questions and options in JSON format.

Example Request:

GET http://localhost:5000/getallquiz

# Get Unattempted Quiz

## GET /getunattemptedquiz

Retrieves unattempted questions and options in JSON format.

Required Parameters:

• loginid: The login ID of the user.

Example Request:

GET http://localhost:5000/getunattemptedquiz?loginid=fredkhan

# Get Attempted Quiz

## GET /getattemptedquiz

Retrieves attempted questions and options in JSON format.

Required Parameters:

• loginid: The login ID of the user.

Example Request:

GET http://localhost:5000/getattemptedquiz?loginid=fredkhan

# Get Random Quiz

## GET /getrandomquiz

Retrieves one random question and options in JSON format.

Example Request:

GET http://localhost:5000/getrandomquiz

# Get Random Quiz using SQL

## GET /getrandomquizsql

Retrieves one random question and options using SQL.

Example Request:

GET http://localhost:5000/getrandomquizsql

Please note that this API documentation provides an overview of the available routes, their methods, their corresponding descriptions, and the required parameters for each route. For more detailed information on request parameters and response formats, refer to the code implementation and the associated method documentation.