

Quiz-Rest-API-MonoRepo

1. AddNewQuestion

HTTP client interface showing a POST request to `http://localhost:8080/addNewQuestion`. The request body is a JSON object:

```
1 {
2   "question": "What is AWS?",
3   "option1": "A Java Framework",
4   "option2": "A database",
5   "option3": "An IDE",
6   "option4": "A cloud provider",
7   "correctAnswer": "A Java Framework",
8   "difficultyLevel": "EASY",
9   "category": "SPRINGBOOT"
10 }
11
```

The response body is a JSON object:

```
1 {
2   "id": 5,
3   "question": "What is AWS?",
4   "option1": "A Java Framework",
5   "option2": "A database",
6   "option3": "An IDE",
7   "option4": "A cloud provider",
8   "correctAnswer": "A Java Framework",
9   "difficultyLevel": "EASY",
10  "category": "SPRINGBOOT"
11 }
```

2. GetAllQuestions

HTTP client interface showing a GET request to `http://localhost:8080/getAllQuestions`. The response body is a JSON array of two question objects:

```
1 {
2   "question": "What is AWS?",
3   "option1": "A Java Framework",
4   "option2": "A database",
5   "option3": "An IDE",
6   "option4": "A cloud provider",
7   "correctAnswer": "A Java Framework",
8   "difficultyLevel": "EASY",
9   "category": "SPRINGBOOT",
10  "id": 5
11 },
12 {
13   "id": 2,
14   "question": "What is Spring Boot?",
15   "option1": "A Java Framework",
16   "option2": "A database",
17   "option3": "An IDE",
18   "option4": "A cloud provider",
19   "correctAnswer": "A Java Framework",
20   "difficultyLevel": "EASY",
21   "category": "SPRINGBOOT",
22   "id": 3
23 },
24 {
25   "id": 3,
```

3. GetQuestionById

REST client interface showing a GET request to `http://localhost:8080/getQuestionById/2`. The response is a JSON object with the following structure:

```
1 {
2   | "question": "What is AWS?",
3   |
4   | "option1": "A Java Framework",
5   | "option2": "A database",
6   | "option3": "An IDE",
7   | "option4": "A cloud provider",
8   | "correctAnswer": "A Java Framework",
9   | "difficultyLevel": "EASY",
10  | "category": "SPRINGBOOT"
11 }
```

4. Update Question






REST client interface showing a PUT request to `http://localhost:8080/updateQuestion/2`. The request body is a JSON object with the following structure:



```
1 {
2   | "question": "What is AWS?",
3   | "option1": "A Java Framework",
4   | "option2": "A database",
5   | "option3": "An IDE",
6   | "option4": "A cloud service provider",
7   | "correctAnswer": "A Java Framework",
8   | "difficultyLevel": "EASY",
9   | "category": "SPRINGBOOT"
10 }
11
```


The response is a JSON object with the following structure:

```
2 "id": 2,
3 "question": "What is AWS?",
4 "option1": "A Java Framework",
5 "option2": "A database",
6 "option3": "An IDE",
7 "option4": "A cloud service provider",
8 "correctAnswer": "A Java Framework",
9 "difficultyLevel": "EASY",
10 "category": "SPRINGBOOT"
11 }
```

5. Delete Question By Id





HTTP  http://localhost:8080/deleteQuestionById/2  Save  Share  










DELETE  http://localhost:8080/deleteQuestionById/2 **Send** 

Params Auth Headers (9) Body  Scripts Settings [Cookies](#)

Query Params






	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		



Body   **200 OK** • 64 ms • 123 B •  



 Raw   Preview  Visualize     

1

6. Create Quiz

HTTP  http://localhost:8080/create?difficultyLevel=HARD&category=J...  Save  Share  





POST  http://localhost:8080/create?difficultyLevel=HARD&category=JAVA&tit **Send** 

Params  Auth Headers (9) Body  Scripts Settings [Cookies](#)

Query Params

<input checked="" type="checkbox"/>	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	difficultyLevel	HARD			
<input checked="" type="checkbox"/>	category	JAVA			
<input checked="" type="checkbox"/>	title	MyQuiz			
	Key	Value	Description		

7. QuestionByCategory

 <http://localhost:8080/api/v1/question/category/JAVA>  Save  Share 

GET



http://localhost:8080/api/v1/question/category/JAVA

Send

Params Auth Headers (9) Body ● Scripts Settings Cookies

Query Params


	Key	Value	Description	...	Bulk Edit
	Key	Value	Description		






Body  200 OK • 319 ms • 878 B •  ...

{}

JSON

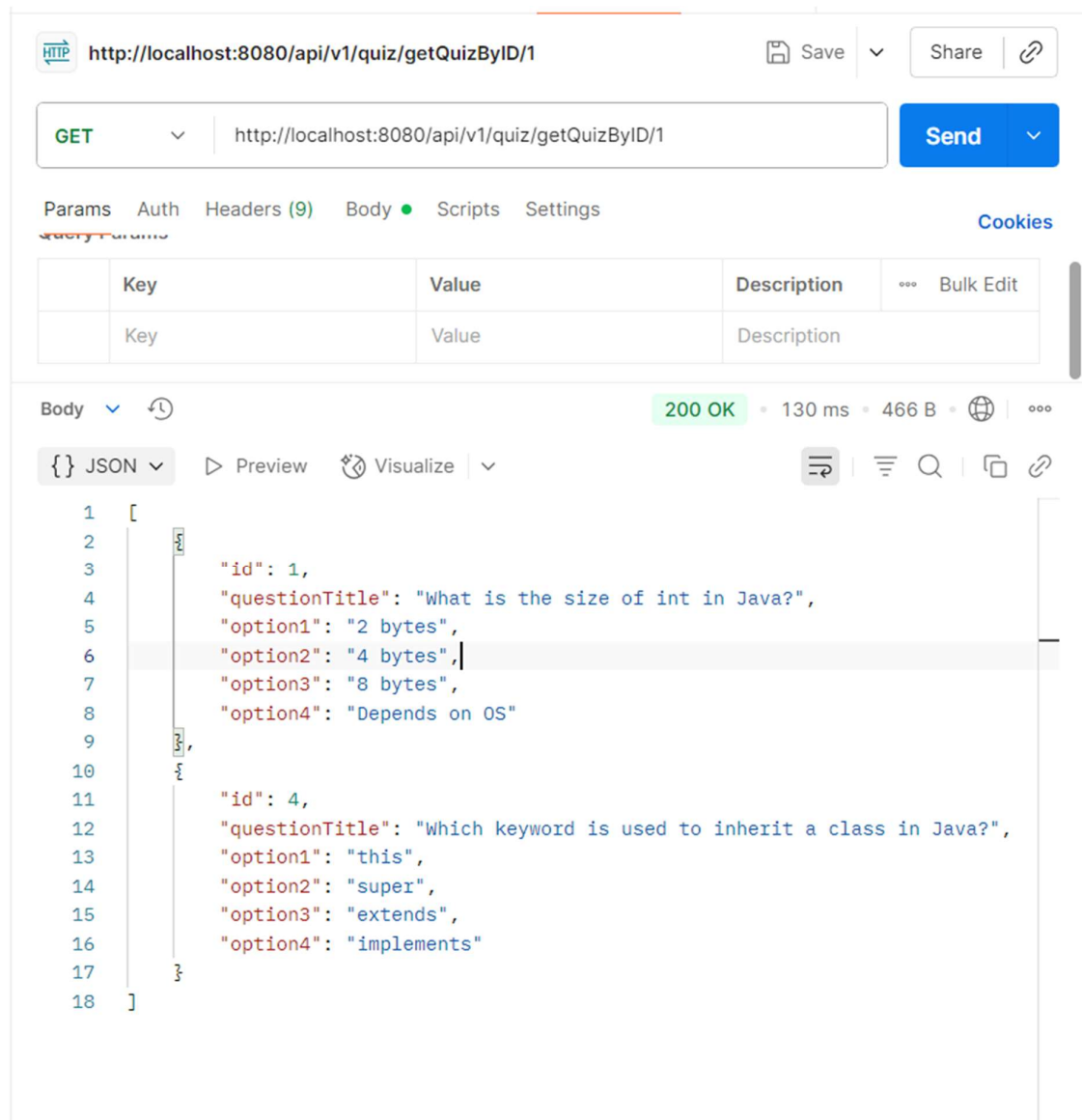
Preview

 Visualize

```
1  [
2    {
3      "questionTitle": "What is the size of int in Java?",
4      "option1": "2 bytes",
5      "option2": "4 bytes",
6      "option3": "8 bytes",
7      "option4": "Depends on OS",
8      "correctAnswer": "4 bytes",
9      "category": "JAVA",
10     "difficultyLevel": "EASY",
11     "questionID": 1
12   },
13   {
14     "questionTitle": "Which keyword is used to inherit a class in Java?",
15     "option1": "this",
16     "option2": "super",
17     "option3": "extends",
18     "option4": "implements",
19     "correctAnswer": "extends",
20     "category": "JAVA",
21     "difficultyLevel": "EASY",
22     "questionID": 4
```

8. Get Quiz By Id



HTTP <http://localhost:8080/api/v1/quiz/getQuizById/1> Save Share

GET <http://localhost:8080/api/v1/quiz/getQuizById/1> Send

Params Auth Headers (9) Body ● Scripts Settings Cookies

Key	Value	Description	Bulk Edit
Key	Value	Description	

Body 200 OK • 130 ms • 466 B

JSON Preview Visualize

```
1 [
2   {
3     "id": 1,
4     "questionTitle": "What is the size of int in Java?",
5     "option1": "2 bytes",
6     "option2": "4 bytes",
7     "option3": "8 bytes",
8     "option4": "Depends on OS"
9   },
10  {
11    "id": 4,
12    "questionTitle": "Which keyword is used to inherit a class in Java?",
13    "option1": "this",
14    "option2": "super",
15    "option3": "extends",
16    "option4": "implements"
17  }
18 ]
```

9. AOP

```
z-Test-Application] [nio-8080-exec-3] com.wipro.example.aop.QuizAOP : logging something before addNewQuestion
z-Test-Application] [nio-8080-exec-3] org.hibernate.SQL :
1, option1, option2, option3, option4, question)

1, option1, option2, option3, option4, question)

z-Test-Application] [nio-8080-exec-3] com.wipro.example.aop.QuizAOP : logging something after addNewQuestion
```

10. OpenAPI Documentation

OpenAPI definition

v0

OAS 3.1

[/api-docs](#)

Servers

http://localhost:8080 - Generated server url



question-controller

PUT

/api/v1/question/updateQuestion/{id}

POST

/api/v1/question/addNewQuestion

PATCH

/api/v1/question/patchQuestion/{id}

GET

/api/v1/question/getQuestionById/{id}

GET

/api/v1/question/getAllQuestions

GET

/api/v1/question/category/{category}

DELETE

/api/v1/question/deleteQuestionById/{id}

quiz-controller

POST /api/v1/quiz/submitQuiz/{id}

POST /api/v1/quiz/create

GET /api/v1/quiz/getQuizByID/{id}

11. API-Docs

localhost:8080/api-docs

pretty-print ☐

```
openapi: "3.1.0", info: { "title": "OpenAPI definition", "version": "v0", "servers": [ { "url": "http://localhost:8080", "description": "Generate tags: [ \"question-controller\", \"operationId\": \"updateQuestion\", \"parameters\": [], \"requestBody\": { \"content\": { \"application/json\": { \"schema\": { \"$description\": \"OK\", \"content\": { \"*/\": { \"schema\": { \"$ref\": \"#/components/schemas/Question\" } } } } }, \"api/v1/quiz/submitQuiz/{id}\": { \"post\": { \"tags\": [ \"question-controller\", \"operationId\": \"submitQuiz\", \"parameters\": { \"id\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"requestBody\": { \"content\": { \"application/json\": { \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Response\" } } } }, \"required\": true, \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Response\" } } } } }, \"api/v1/quiz/create\": { \"post\": { \"tags\": [ \"quiz-controller\", \"operationId\": \"createQuiz\", \"parameter name\": \"arg1\", \"in\": \"query\", \"required\": true, \"schema\": { \"type\": \"string\" } }, { \"name\": \"arg2\", \"in\": \"query\", \"required\": true, \"schema\": { \"type\": \"string\" } }, { \"name\": \"arg3\", \"in\": \"query\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"responses\": { \"200\": { \"description\": \"OK\", \"content\": { \"*/\": { \"schema\": { \"$ref\": \"#/components/schemas/Quiz\" } } } } } }, \"api/v1/question/addNewQuestion\": { \"post\": { \"tags\": [ \"question-controller\", \"operationId\": \"addNewQuestion\", \"parameters\": { \"questionId\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"requestBody\": { \"content\": { \"application/json\": { \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Question\" } } } }, \"required\": true, \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Question\" } } } } }, \"api/v1/question/patchQuestion\": { \"patch\": { \"tags\": [ \"question-controller\", \"operationId\": \"patchQuestion\", \"parameters\": [], \"requestBody\": { \"content\": { \"application/json\": { \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Question\" } } } }, \"required\": true, \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Question\" } } } } }, \"api/v1/quiz/getQuizByID/{id}\": { \"get\": { \"tags\": [ \"question-controller\", \"operationId\": \"getQuizByID\", \"parameters\": { \"id\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"responses\": { \"200\": { \"description\": \"OK\", \"content\": { \"*/\": { \"schema\": { \"$ref\": \"#/components/schemas/Quiz\" } } } } } } }, \"api/v1/question/getQuestionById\": { \"get\": { \"tags\": [ \"question-controller\", \"operationId\": \"getQuestionById\", \"parameters\": { \"questionId\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"responses\": { \"200\": { \"description\": \"OK\", \"content\": { \"*/\": { \"schema\": { \"$ref\": \"#/components/schemas/Question\" } } } } } } }, \"api/v1/question/getAllQuestions\": { \"get\": { \"tags\": [ \"question-controller\", \"operationId\": \"getAllQuestions\", \"parameters\": [], \"responses\": { \"200\": { \"description\": \"OK\", \"content\": { \"*/\": { \"schema\": { \"$ref\": \"#/components/schemas/Question\" } } } } } } }, \"api/v1/question/category/{category}\": { \"get\": { \"tags\": [ \"question-controller\", \"operationId\": \"getQuestionsByCategory\", \"parameters\": { \"category\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"responses\": { \"200\": { \"description\": \"OK\", \"content\": { \"*/\": { \"schema\": { \"$ref\": \"#/components/schemas/Question\" } } } } } } }, \"api/v1/question/deleteQuestion\": { \"delete\": { \"tags\": [ \"question-controller\", \"operationId\": \"deleteQuestion\", \"parameters\": { \"questionId\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"responses\": { \"200\": { \"description\": \"OK\", \"content\": { \"*/\": { \"schema\": { \"$ref\": \"#/components/schemas/Question\" } } } } } } }, \"api/v1/question/option/{questionId}/{optionId}\": { \"get\": { \"tags\": [ \"question-controller\", \"operationId\": \"getOption\", \"parameters\": { \"questionId\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } }, \"optionId\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"responses\": { \"200\": { \"description\": \"OK\", \"content\": { \"*/\": { \"schema\": { \"$ref\": \"#/components/schemas/Option\" } } } } } } }, \"api/v1/question/option/{questionId}/{optionId}/{optionValue}\": { \"post\": { \"tags\": [ \"question-controller\", \"operationId\": \"setOptionValue\", \"parameters\": { \"questionId\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } }, \"optionId\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } }, \"optionValue\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"requestBody\": { \"content\": { \"application/json\": { \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Option\" } } } }, \"required\": true, \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Option\" } } } } }, \"api/v1/question/option/{questionId}/{optionId}/{optionValue}/{optionLabel}\": { \"post\": { \"tags\": [ \"question-controller\", \"operationId\": \"setOptionLabel\", \"parameters\": { \"questionId\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } }, \"optionId\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } }, \"optionValue\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } }, \"optionLabel\": { \"type\": \"string\", \"required\": true, \"schema\": { \"type\": \"string\" } } }, \"requestBody\": { \"content\": { \"application/json\": { \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Option\" } } } }, \"required\": true, \"schema\": { \"type\": \"array\", \"items\": { \"$ref\": \"#/components/schemas/Option\" } } } } } } }
```