Quiz App(Mono Repo)

End Point: For Adding New Question


```json
{
  "questionTitle": "What is java?",
  "option1": "An operating system",
  "option2": "A database",
  "option3": "A framework",
  "option4": "A programming language",
  "correctAnswer": 4,
  "difficultyLevel": "MEDIUM",
  "category": "JAVA"
}
```

Body | Cookies | Headers (5) | Test Results — Status: 200 OK | Time: 618 ms | Size: 391 B

```json
{
    "questionId": 6,
    "questionTitle": "What is java?",
    "option1": "An operating system",
    "option2": "A database",
    "option3": "A framework",
    "option4": "A programming language",
    "correctAnswer": "4",
    "difficultyLevel": "MEDIUM",
    "category": "JAVA"
}
```

End Point: For Getting Question By ID

GET http://localhost:8080/api/v1/question/getQuestionById/3

Body | Cookies | Headers (5) | Test Results — Status: 200 OK | Time: 17 ms | Size: 395 B

```json
{
    "questionId": 3,
    "questionTitle": "What is spring?",
    "option1": "An operating system",
    "option2": "A database",
    "option3": "A framework",
    "option4": "A programming language",
    "correctAnswer": "3",
    "difficultyLevel": "MEDIUM",
    "category": "SPRING"
}
```

End Point: For Getting All Questions(Pagination)

GET http://localhost:8080/api/v1/question/getAllQuestions?page=0&size=2 Send

Params ● Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (5) Test Results Status: 200 OK Time: 217 ms Size: 945 B Save Response ∨

Pretty Raw Preview Visualize JSON ∨

```
 1  {
 2      "content": [
 3          {
 4              "questionId": 1,
 5              "questionTitle": "Updated question title",
 6              "option1": "A programming language",
 7              "option2": "A database",
 8              "option3": "A framework",
 9              "option4": "An operating system",
10              "correctAnswer": "1",
11              "difficultyLevel": "HARD",
12              "category": "HTML"
13          },
14          {
15              "questionId": 3,
16              "questionTitle": "What is spring?",
17              "option1": "An operating system",
18              "option2": "A database",
19              "option3": "A framework",
20              "option4": "A programming language",
21              "correctAnswer": "3",
22              "difficultyLevel": "MEDIUM",
23              "category": "SPRING"
24          }
```

End Point: Patch Update Question By ID

PATCH http://localhost:8080/api/v1/question/patchQuestionById/1 Send

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary JSON ∨ Beautify

```
 1  {
 2      "questionTitle": "Updated question title"
 3
 4  }
 5
```

Body Cookies Headers (5) Test Results Status: 200 OK Time: 28 ms Size: 398 B Save Response ∨

Pretty Raw Preview Visualize JSON ∨

```
 1  {
 2      "questionId": 1,
 3      "questionTitle": "Updated question title",
 4      "option1": "A programming language",
 5      "option2": "A database",
 6      "option3": "A framework",
 7      "option4": "An operating system",
 8      "correctAnswer": "1",
 9      "difficultyLevel": "HARD",
10      "category": "HTML"
11  }
```

End Point: For Getting Question By Category & Difficulty Level

	GET ∨	http://localhost:8080/api/v1/question/getBYCatDiff?category=HTML&difficultyLevel=HARD	**Send** ∨

Params ●   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   Cookies

	Key	Value	Bulk Edit
☑	category	HTML	
☑	difficultyLevel	HARD	
	Key	Value	

Body   Cookies   Headers (5)   Test Results   Status: 200 OK   Time: 49 ms   Size: 400 B   Save Response ∨

Pretty   Raw   Preview   Visualize   JSON ∨

```
1   [
2       {
3           "questionId": 1,
4           "questionTitle": "Updated question title",
5           "option1": "A programming language",
6           "option2": "A database",
7           "option3": "A framework",
8           "option4": "An operating system",
9           "correctAnswer": "1",
10          "difficultyLevel": "HARD",
11          "category": "HTML"
12      }
13  ]
```

End Point: For Deleting Question BY ID

http://localhost:8080/api/v1/question/deleteQuestionById/3   Save

	DELETE ∨	http://localhost:8080/api/v1/question/deleteQuestionById/3	**Send** ∨

Params   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

	Key	Value	Bulk Edit
	Key	Value	

Body   Cookies   Headers (5)   Test Results   Status: 200 OK   Time: 74 ms   Size: 193 B   Save Response ∨

Pretty   Raw   Preview   Visualize   Text ∨

```
1   Question Deleted Successfully
```
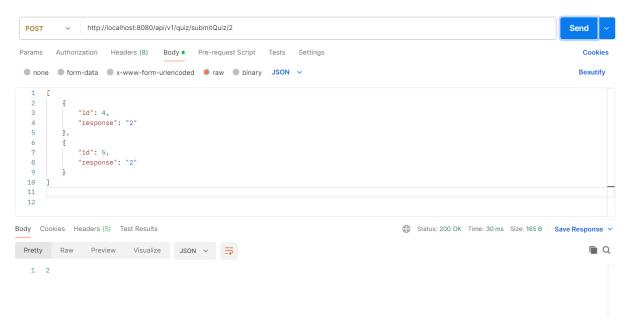
End Point: For Creating Quiz

POST | http://localhost:8080/api/v1/quiz/create?category=SPRINGBOOT&difficultyLevel=EASY&quizTitle=My Quiz | **Send**

Params ● | Authorization | Headers (7) | Body | Pre-request Script | Tests | Settings | Cookies

Body | Cookies | Headers (5) | Test Results | Status: 200 OK | Time: 92 ms | Size: 670 B | Save Response

Pretty | Raw | Preview | Visualize | JSON | Wrap Line

```
 1   {
 2       "id": 2,
 3       "quizTitle": "My Quiz",
 4       "questions": [
 5           {
 6               "questionId": 4,
 7               "questionTitle": "What is sql?",
 8               "option1": "An operating system",
 9               "option2": "A database",
10               "option3": "A framework",
11               "option4": "A programming language",
12               "correctAnswer": "2",
13               "difficultyLevel": "EASY",
14               "category": "SPRINGBOOT"
15           },
16           {
17               "questionId": 5,
18               "questionTitle": "What is sql?",
19               "option1": "An operating system",
20               "option2": "A database",
21               "option3": "A framework",
22               "option4": "A programming language",
23               "correctAnswer": "2",
24               "difficultyLevel": "EASY",
```

End Point: For Getting Quiz By ID

GET | http://localhost:8080/api/v1/quiz/getQuizById/2 | **Send**

Params | Authorization | Headers (6) | Body | Pre-request Script | Tests | Settings | Cookies

Query Params

Key	Value

Bulk Edit

Body | Cookies | Headers (5) | Test Results | Status: 200 OK | Time: 18 ms | Size: 473 B | Save Response

Pretty | Raw | Preview | Visualize | JSON

```
 1   [
 2       {
 3           "id": 4,
 4           "questionTitle": "What is sql?",
 5           "option1": "An operating system",
 6           "option2": "A database",
 7           "option3": "A framework",
 8           "option4": "A programming language"
 9       },
10       {
11           "id": 5,
12           "questionTitle": "What is sql?",
13           "option1": "An operating system",
14           "option2": "A database",
15           "option3": "A framework",
16           "option4": "A programming language"
17       }
18   ]
```

End Point: For Calculating Score

POST · http://localhost:8080/api/v1/quiz/submitQuiz/2 · Send ▾

Params · Authorization · Headers (8) · Body ● · Pre-request Script · Tests · Settings · Cookies

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary · JSON ▾ · Beautify

```
1   [
2       {
3           "id": 4,
4           "response": "2"
5       },
6       {
7           "id": 5,
8           "response": "2"
9       }
10  ]
11
12
```

Body · Cookies · Headers (5) · Test Results · Status: 200 OK · Time: 30 ms · Size: 165 B · Save Response ▾

Pretty · Raw · Preview · Visualize · JSON ▾

1 2

Exception: Question Not Found with ID

GET · http://localhost:8080/api/v1/question/getQuestionById/3 · Send ▾

Params · Authorization · Headers (6) · Body · Pre-request Script · Tests · Settings · Cookies

Query Params

Key	Value	Bulk Edit

Body · Cookies · Headers (5) · Test Results · Status: 404 Not Found · Time: 522 ms · Size: 199 B · Save Response ▾

Pretty · Raw · Preview · Visualize · Text ▾

1 Question not found with id 3

Loggers

```
Minimum pool size: undefined/unknown
    Maximum pool size: undefined/unknown
2025-08-08T19:09:02.358+05:30  INFO 37620 --- [Quiz] [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator      : HHH000489: No JTA platform available (set 'hibernate.transaction.jta.platform' to enable
2025-08-08T19:09:02.377+05:30  INFO 37620 --- [Quiz] [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2025-08-08T19:09:02.524+05:30  WARN 37620 --- [Quiz] [ restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performe
2025-08-08T19:09:02.632+05:30  INFO 37620 --- [Quiz] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer      : LiveReload server is running on port 35729
2025-08-08T19:09:02.646+05:30  INFO 37620 --- [Quiz] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port 8080 (http) with context path '/'
2025-08-08T19:09:02.651+05:30  INFO 37620 --- [Quiz] [ restartedMain] com.spring.quiz.QuizApplication         : Started QuizApplication in 0.872 seconds (process running for 349.858)
2025-08-08T19:09:02.653+05:30  INFO 37620 --- [Quiz] [ restartedMain] .ConditionEvaluationDeltaLoggingListener : Condition evaluation unchanged
2025-08-08T19:09:45.176+05:30  INFO 37620 --- [Quiz] [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/]      : Initializing Spring DispatcherServlet 'dispatcherServlet'
2025-08-08T19:09:45.176+05:30  INFO 37620 --- [Quiz] [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet       : Initializing Servlet 'dispatcherServlet'
2025-08-08T19:09:45.179+05:30  INFO 37620 --- [Quiz] [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet       : Completed initialization in 3 ms
2025-08-08T19:09:45.179+05:30  INFO 37620 --- [Quiz] [nio-8080-exec-1] com.spring.quiz.aop.LoggingAspect       : logging something before addNewQuestion endpoint
2025-08-08T19:09:45.179+05:30  INFO 37620 --- [Quiz] [nio-8080-exec-1] com.spring.quiz.aop.LoggingAspect       : logging something before addNewQuestion endpoint
```

SWAGGER-UI

Swagger
Supported by SMARTBEAR

/api-docs

Explore

OpenAPI definition v0 OAS 3.1
/api-docs

Servers
http://localhost:8080 - Generated server url

quiz-controller

POST	/api/v1/quiz/submitQuiz/{id}
POST	/api/v1/quiz/create
GET	/api/v1/quiz/getQuizById/{id}

question-controller

POST	/api/v1/question/addNewQuestion
PATCH	/api/v1/question/patchQuestionById/{id}
GET	/api/v1/question/getQuestionById/{id}
GET	/api/v1/question/getBYCatDiff
GET	/api/v1/question/getAllQuestions
DELETE	/api/v1/question/deleteQuestionById/{id}

Schemas

---

question-controller

POST	/api/v1/question/addNewQuestion
PATCH	/api/v1/question/patchQuestionById/{id}
GET	/api/v1/question/getQuestionById/{id}

Parameters   Cancel

Name	Description
id * required integer($int32) (path)	7

| Execute | Clear |

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:8080/api/v1/question/getQuestionById/7' \
  -H 'accept: */*'
```

Request URL

```
http://localhost:8080/api/v1/question/getQuestionById/7
```

Server response

Code	Details
200	**Response body**

```
{
  "questionId": 7,
  "questionTitle": "What is java?",
  "option1": "An operating system",
  "option2": "A database",
  "option3": "A framework",
  "option4": "A programming language",
  "correctAnswer": "4",
  "difficultyLevel": "EASY",
  "category": "JAVA"
}
```
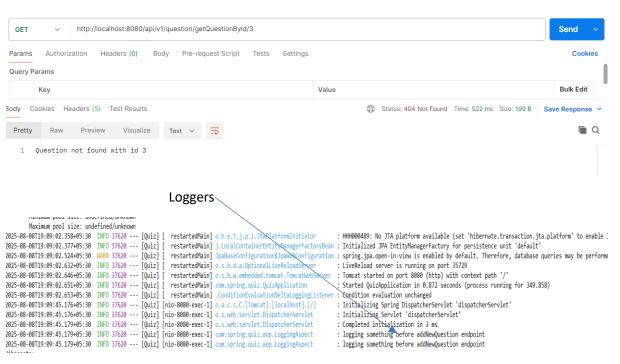Download

Response headers

```
connection: keep-alive
content-type: application/json
```

API-DOCS

"openapi":"3.1.0","info":{"title":"OpenAPI definition","version":"v0"},"servers":[{"url":"http://localhost:8080","description":"Generated server url"}],"paths":{"/api/v1/quiz/submitQuiz/{id}":{"post":{"tags":
["quiz-controller"],"operationId":"submitQuiz","parameters":[{"name":"id","in":"path","required":true,"schema":{"type":"integer","format":"int32"}}],"requestBody":{"content":{"application/json":{"schema":
"type":"array","items":{"$ref":"#/components/schemas/Response"}}}},"required":true},"responses":{"200":{"description":"OK","content":{"*/*":{"schema":
"type":"integer","format":"int32"}}}}}},"/api/v1/quiz/create":{"post":{"tags":["quiz-controller"],"operationId":"createQuiz","parameters":[{"name":"category","in":"query","required":true,"schema":
"type":"string","enum":["JAVA","SPRING","SPRINGBOOT","HTML"]}},{"name":"difficultyLevel","in":"query","required":true,"schema":{"type":"string","enum":["EASY","MEDIUM","HARD"]}},
"name":"quizTitle","in":"query","required":true,"schema":{"type":"string"}}],"responses":{"200":{"description":"OK","content":{"*/*":{"schema":
"$ref":"#/components/schemas/Quiz"}}}}}},"/api/v1/question/addNewQuestion":{"post":{"tags":["question-controller"],"operationId":"addQuestion","requestBody":{"content":{"application/json":{"schema":
"$ref":"#/components/schemas/Question"}}},"required":true},"responses":{"200":{"description":"OK","content":{"*/*":{"schema":
"$ref":"#/components/schemas/Question"}}}}}},"/api/v1/question/patchQuestionById/{id}":{"patch":{"tags":["question-controller"],"operationId":"patch","parameters":
{"name":"id","in":"path","required":true,"schema":{"type":"integer","format":"int32"}}],"requestBody":{"content":{"application/json":{"schema":
"$ref":"#/components/schemas/Question"}}},"required":true},"responses":{"200":{"description":"OK","content":{"*/*":{"schema":{"$ref":"#/components/schemas/Question"}}}}}}},"/api/v1/quiz/getQuizById/{id}":{"get":
"tags":["quiz-controller"],"operationId":"getQuizQuestions","parameters":[{"name":"id","in":"path","required":true,"schema":{"type":"integer","format":"int32"}}],"responses":{"200":{"description":"OK","content":
"*/*":{"schema":{"type":"array","items":{"$ref":"#/components/schemas/QuestionWrapper"}}}}}}}},"/api/v1/question/getQuestionById/{id}":{"get":{"tags":["question-
controller"],"operationId":"getQuestionById","parameters":[{"name":"id","in":"path","required":true,"schema":{"type":"integer","format":"int32"}}],"responses":{"200":{"description":"OK","content":{"*/*":{"schema":
"$ref":"#/components/schemas/Question"}}}}}}},"/api/v1/question/getBYCatDiff":{"get":{"tags":["question-controller"],"operationId":"findByCategoryAndDifficultyLevel","parameters":
{"name":"category","in":"query","required":true,"schema":{"type":"string","enum":["JAVA","SPRING","SPRINGBOOT","HTML"]}},{"name":"difficultyLevel","in":"query","required":true,"schema":{"type":"string","enum":
"EASY","MEDIUM","HARD"]}}],"responses":{"200":{"description":"OK","content":{"*/*":{"schema":{"type":"array","items":{"$ref":"#/components/schemas/Question"}}}}}}}},"/api/v1/question/getAllQuestions":{"get":
"tags":["question-controller"],"operationId":"getAllQuestionsPage","parameters":[{"name":"pageable","in":"query","required":true,"schema":{"$ref":"#/components/schemas/Pageable"}}],"responses":{"200":
"description":"OK","content":{"*/*":{"schema":{"$ref":"#/components/schemas/PageQuestion"}}}}}}},"/api/v1/question/deleteQuestionById/{id}":{"delete":{"tags":["question-
controller"],"operationId":"deleteQuestion","parameters":[{"name":"id","in":"path","required":true,"schema":{"type":"integer","format":"int32"}}],"responses":{"200":{"description":"OK","content":{"*/*":{"schema":
"type":"string"}}}}}}},"components":{"schemas":{"Response":{"type":"object","properties":{"id":{"type":"integer","format":"int32"},"response":{"type":"string"}}},"Question":{"type":"object","properties":
"questionId":{"type":"integer","format":"int32"},"questionTitle":{"type":"string"},"option1":{"type":"string"},"option2":{"type":"string"},"option3":{"type":"string"},"option4":{"type":"string"},"correctAnswer":
"type":"string"},"difficultyLevel":{"type":"string","enum":["EASY","MEDIUM","HARD"]},"category":{"type":"string","enum":["JAVA","SPRING","SPRINGBOOT","HTML"]}},"required":["questionTitle"]},"Quiz":
"type":"object","properties":{"id":{"type":"integer","format":"int32"},"quizTitle":{"type":"string"},"questions":{"type":"array","items":{"$ref":"#/components/schemas/Question"}}}},"QuestionWrapper":
"type":"object","properties":{"id":{"type":"integer","format":"int32"},"questionTitle":{"type":"string"},"option1":{"type":"string"},"option2":{"type":"string"},"option3":{"type":"string"},"option4":
"type":"string"}}},"Pageable":{"type":"object","properties":{"page":{"type":"integer","format":"int32","minimum":0},"size":{"type":"integer","format":"int32","minimum":1},"sort":{"type":"array","items":
"type":"string"}}},"PageQuestion":{"type":"object","properties":{"totalPages":{"type":"integer","format":"int32"},"totalElements":{"type":"integer","format":"int64"},"size":
"type":"integer","format":"int32"},"content":{"type":"array","items":{"$ref":"#/components/schemas/Question"}},"number":{"type":"integer","format":"int32"},"sort":
"$ref":"#/components/schemas/SortObject"},"first":{"type":"boolean"},"last":{"type":"boolean"},"numberOfElements":{"type":"integer","format":"int32"},"pageable":
"$ref":"#/components/schemas/PageableObject"},"empty":{"type":"boolean"}}},"PageableObject":{"type":"object","properties":{"offset":{"type":"integer","format":"int64"},"sort":
"$ref":"#/components/schemas/SortObject"},"pageNumber":{"type":"integer","format":"int32"},"pageSize":{"type":"integer","format":"int32"},"paged":{"type":"boolean"},"unpaged":{"type":"boolean"}}},"SortObject":
"type":"object","properties":{"empty":{"type":"boolean"},"sorted":{"type":"boolean"},"unsorted":{"type":"boolean"}}}}}