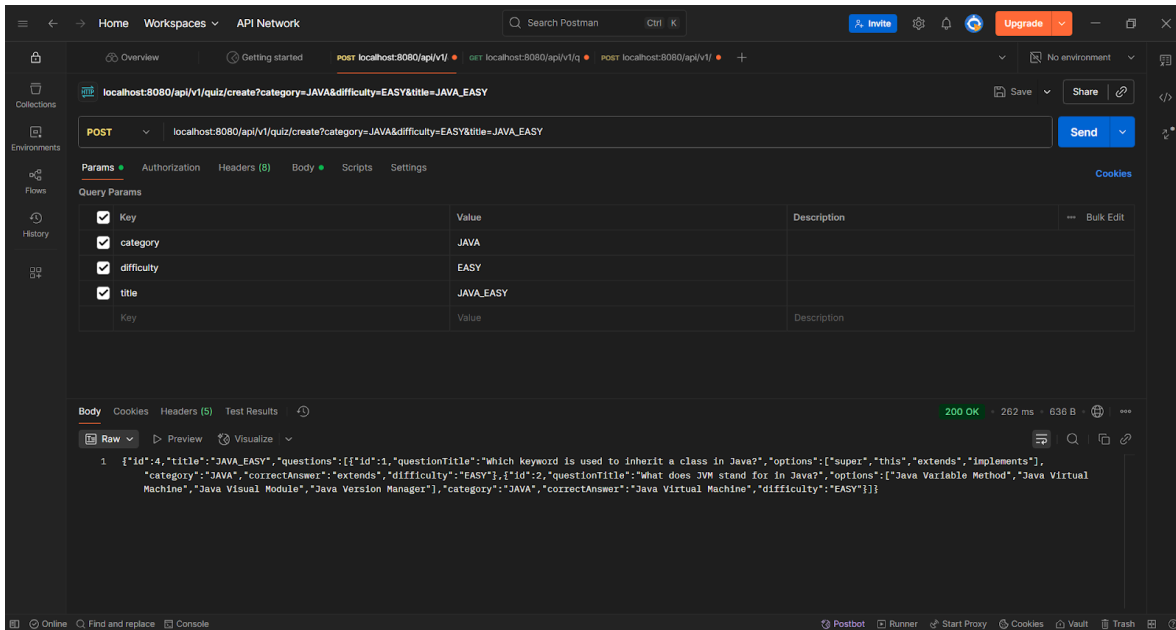


# Documenting Endpoints For Quiz App Monolithic - Akshay Reddy G

## 1.creating quiz(POST)

`POST /api/v1/quiz/create?category=JAVA&difficulty=EASY&title=JAVA_EASY`

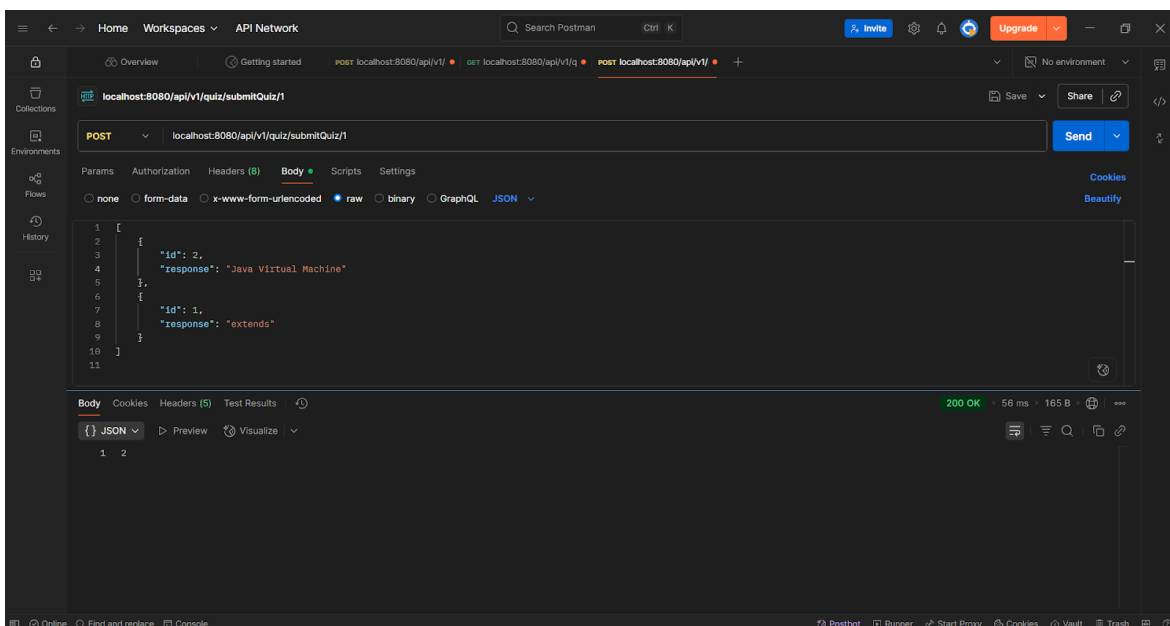
Creates a new quiz with a given category, difficulty, and title. Returns quiz ID, title, and generated questions.



## 2.Submitting Quiz(POST)

`POST /api/v1/quiz/submitQuiz/{quizId}`

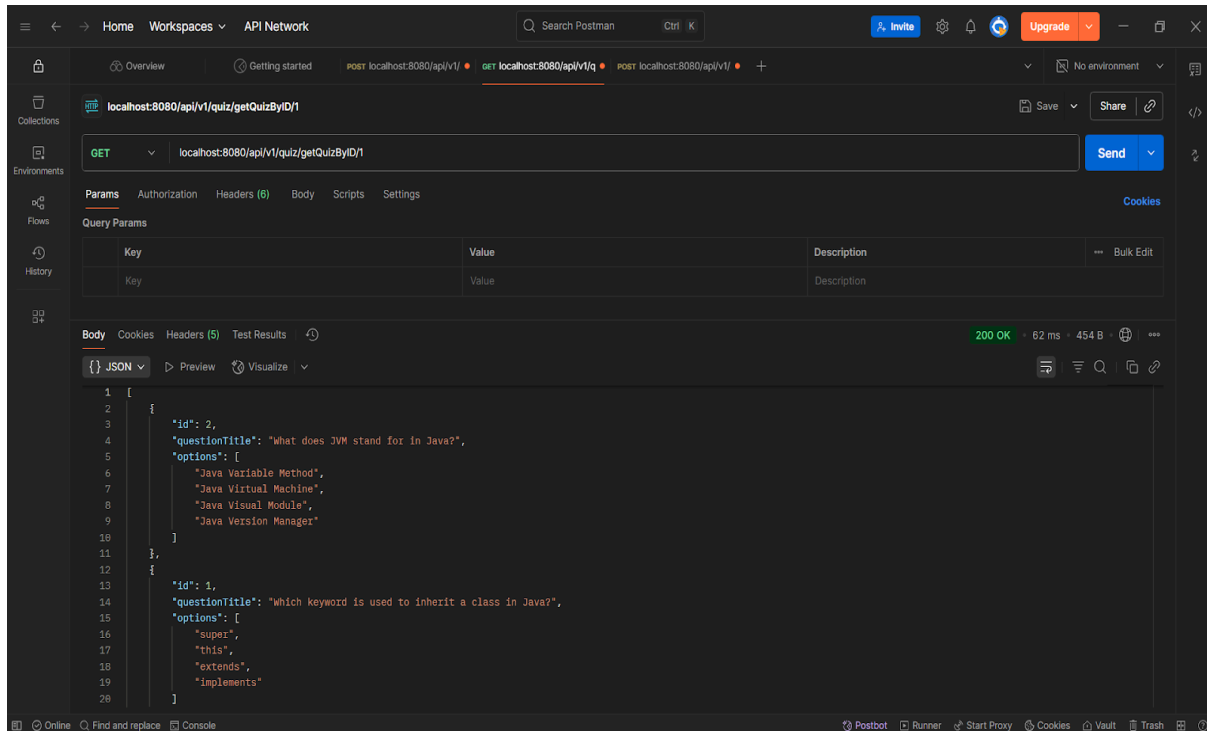
Submits user answers for a quiz. Returns score or evaluation result.



### 3. Get Quiz By ID(GET)

`GET /api/v1/quiz/getQuizById/{quizId}`

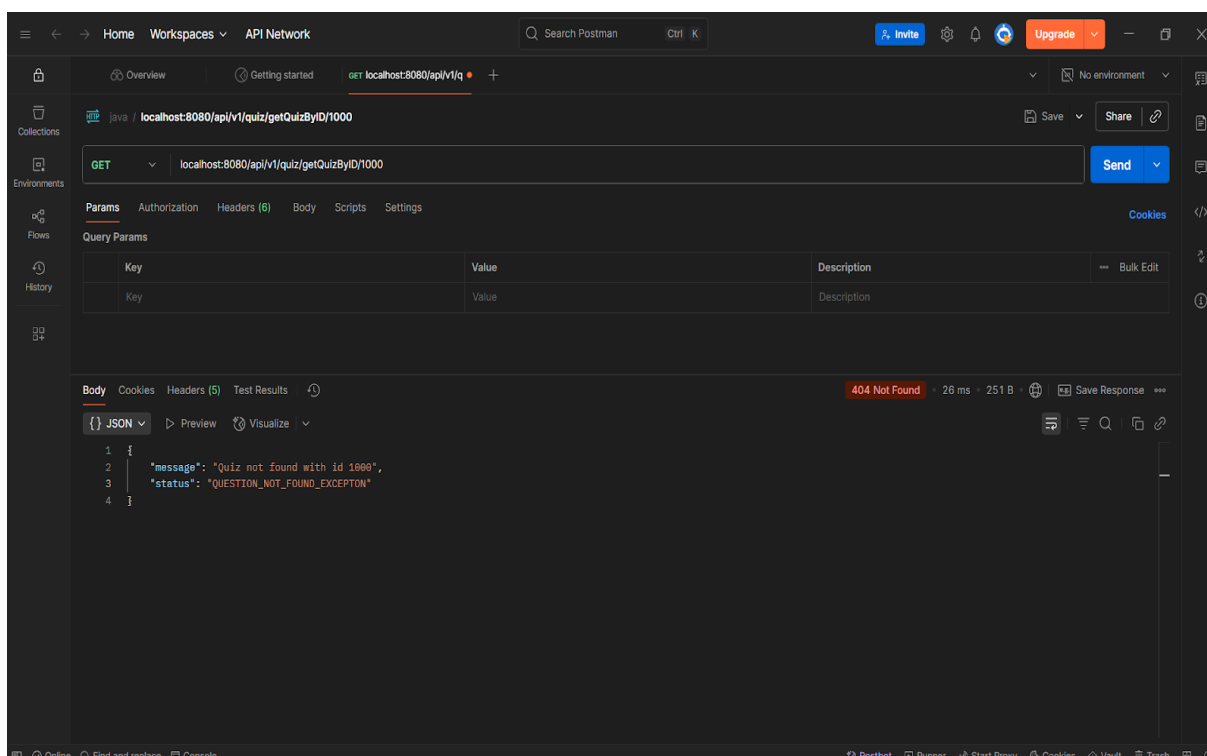
Fetches quiz details including questions, options, and correct answers for a given quiz ID.



### 4. Custom Exception(POST)

`GET /api/v1/quiz/getQuizById/{invalidId}`

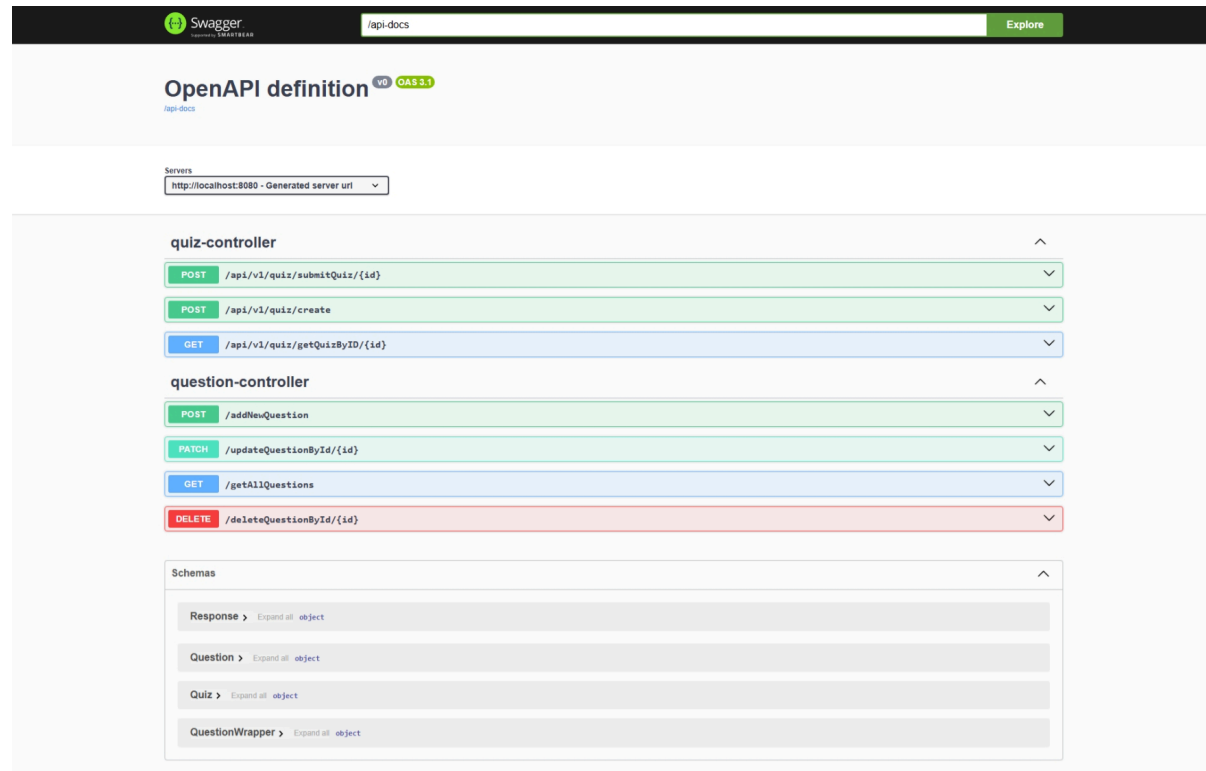
Returns an error JSON when a quiz with the given ID is not found for any API.



## 5. Swagger ui

```
/swagger-ui.html
```

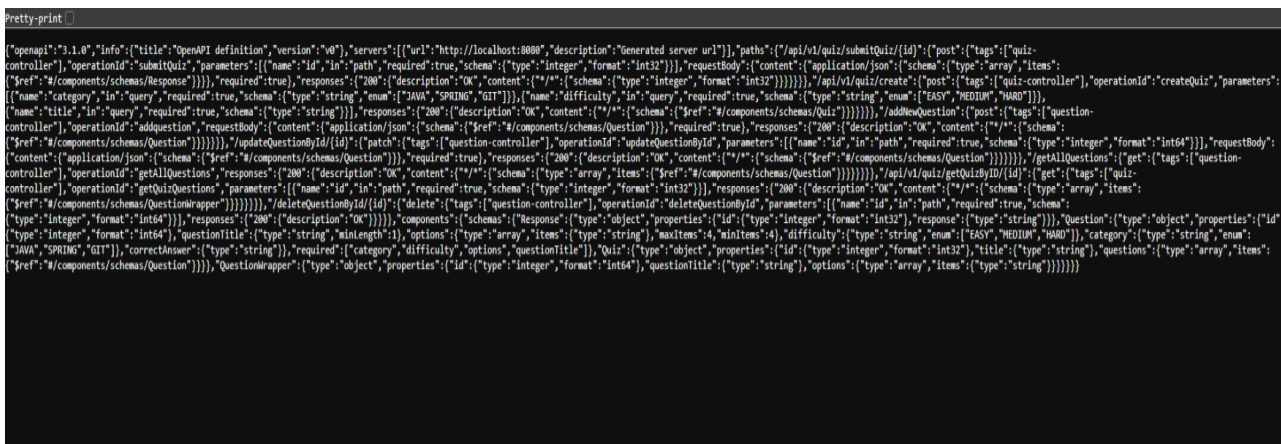
Interactive API documentation interface for exploring and testing endpoints.



## 6.Api docs

```
/api-docs
```

Serves raw OpenAPI specification in JSON format.



## 7.AOP

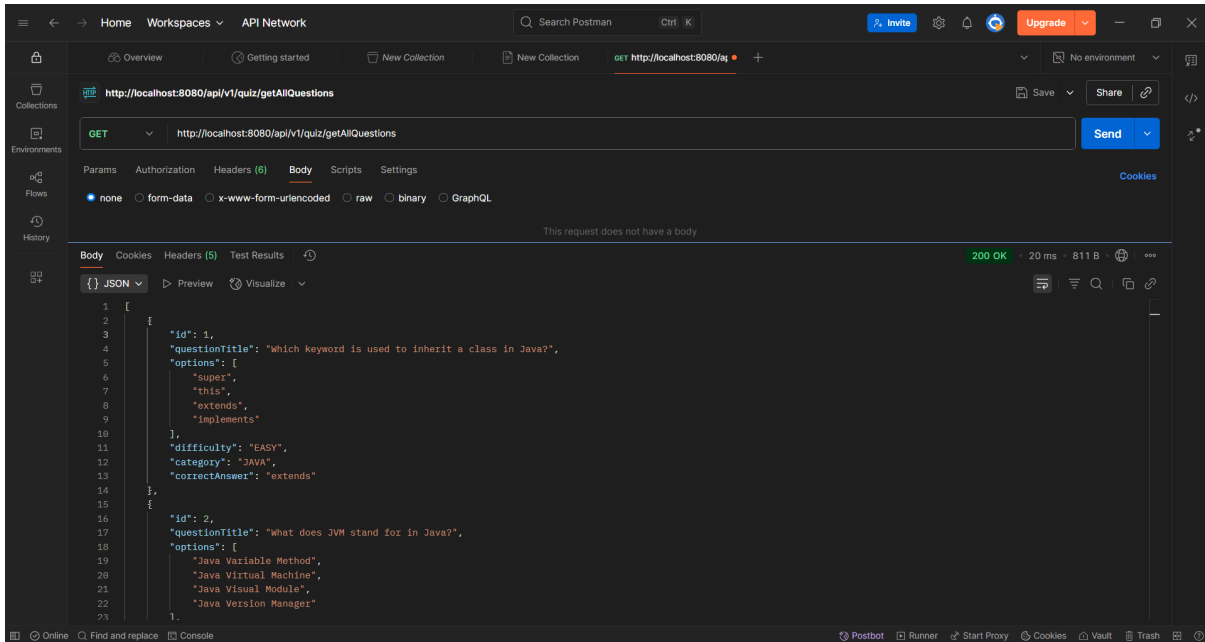
Aspect-Oriented Programming used internally for logging and cross-cutting concerns (no direct endpoint).

```
ERROR 37860 --- [Quiz-App] [nio-8080-exec-2] com.wipro.akshay.LoggingAspect : ===== Executing Before Advice for getAllQuestions() =====
ERROR 37860 --- [Quiz-App] [nio-8080-exec-2] com.wipro.akshay.LoggingAspect : Calling method: getAllQuestions
ERROR 37860 --- [Quiz-App] [nio-8080-exec-2] com.wipro.akshay.LoggingAspect : Target class: com.wipro.akshay.controllers.QuestionController
ERROR 37860 --- [Quiz-App] [nio-8080-exec-2] com.wipro.akshay.LoggingAspect : Method arguments: {}
ERROR 37860 --- [Quiz-App] [nio-8080-exec-2] com.wipro.akshay.LoggingAspect : =====
```

## 8. Get all Questions(GET)

GET /api/v1/quiz/getAllQuestions

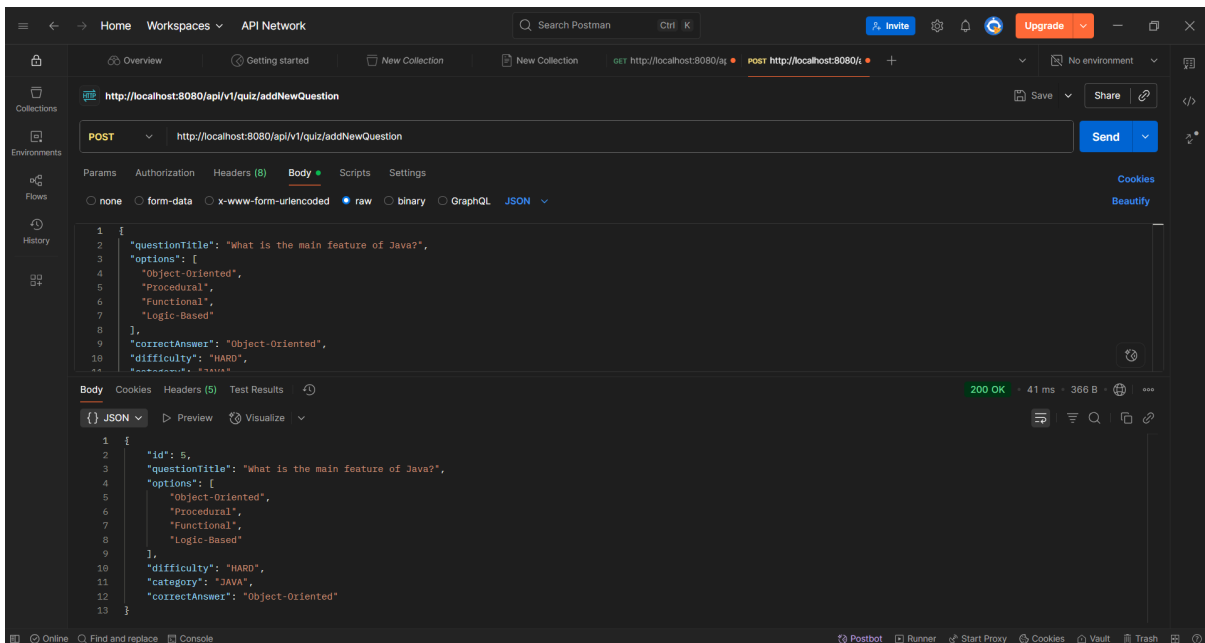
Retrieves all available questions in the database.



## 9. Add Questions(POST)

POST /api/v1/quiz/addNewQuestion

Adds a new question with options, correct answer, difficulty, and category.



## 10. Logging

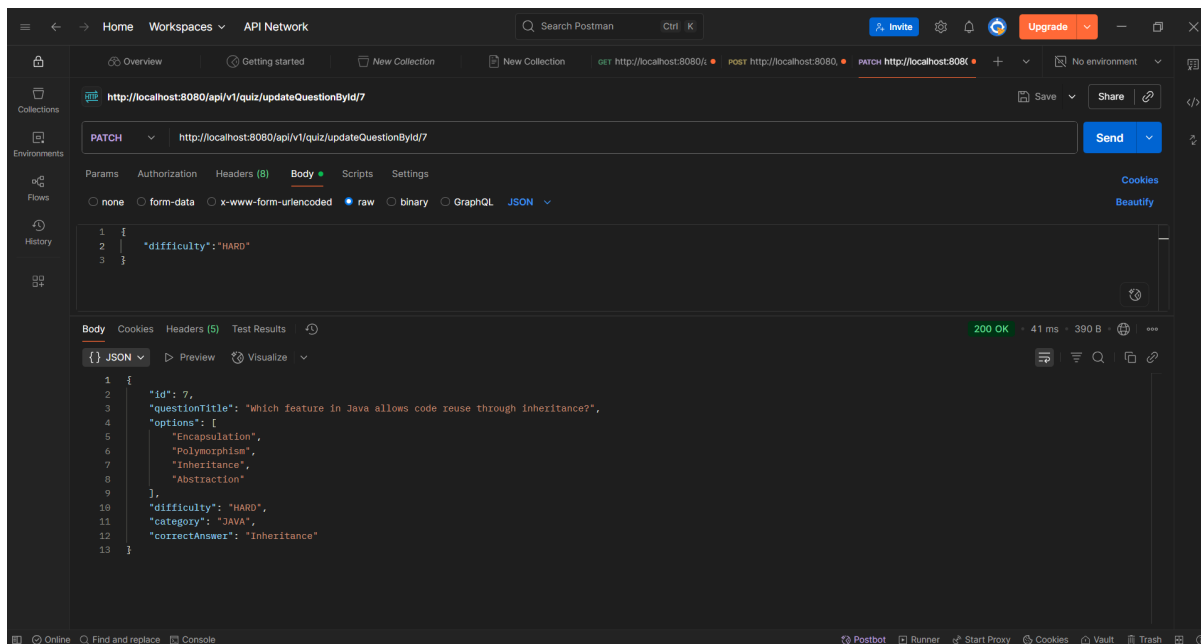
Internal feature to log DB operations and requests (no direct endpoint).

```
WARN 30408 --- [Quiz-App] [nio-8080-exec-2] c.w.akshay.services.QuestionServiceImpl : After saving to DB, questionTitle: What is the main feature of Java?
WARN 30408 --- [Quiz-App] [nio-8080-exec-2] c.w.akshay.services.QuestionServiceImpl : After saving to DB, category: JAVA
WARN 30408 --- [Quiz-App] [nio-8080-exec-2] c.w.akshay.services.QuestionServiceImpl : After saving to DB, correctAnswer: Object-Oriented
WARN 30408 --- [Quiz-App] [nio-8080-exec-2] c.w.akshay.services.QuestionServiceImpl : After saving to DB, difficulty: HARD
WARN 30408 --- [Quiz-App] [nio-8080-exec-2] c.w.akshay.services.QuestionServiceImpl : After saving to DB, category: JAVA
```

# 11.Update Question By Id (PATCH)

PATCH /api/v1/quiz/updateQuestionById/{id}

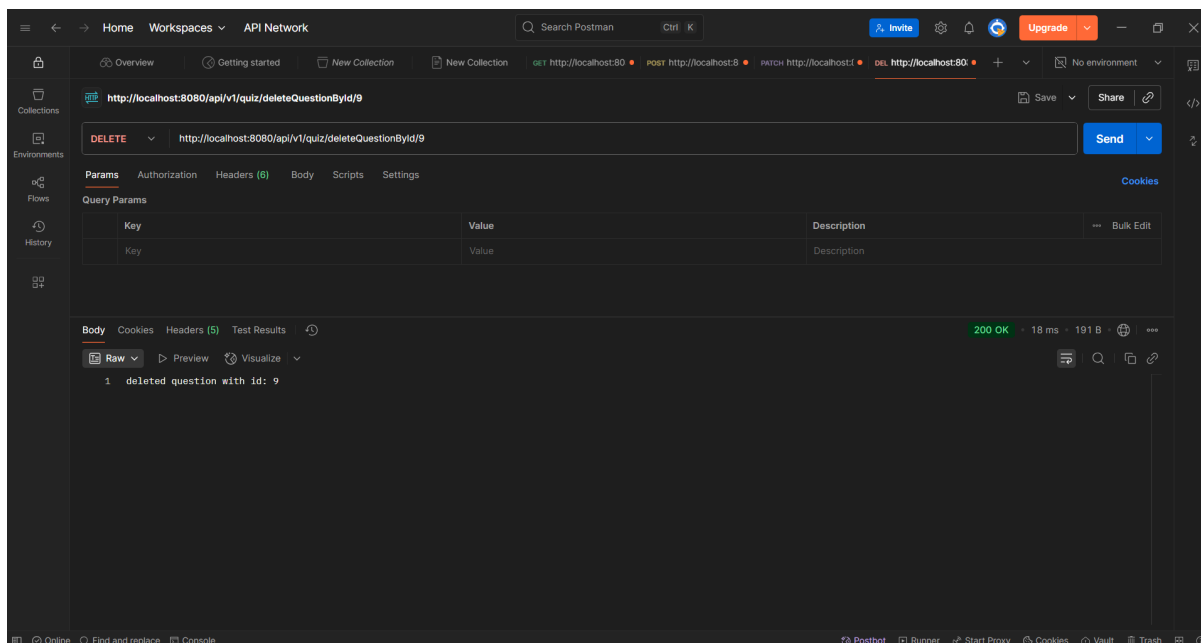
Updates question details like difficulty, options, etc., by its ID.



# 12.Delete Question By Id (DELETE)

DELETE /api/v1/quiz/deleteQuestionById/{id}

Deletes a question from the database by its ID.



# 13. Get Questions using Pagination

`GET /api/v1/quiz/getQuestions?page={n}&size={m}`

Retrieves questions in paginated format.

The screenshot shows the Postman interface with a GET request to `http://localhost:8080/api/v1/quiz/getAllQuestionsPage?page=0&size=5&sortBy=id`. The response is a 200 OK status with a JSON body containing a list of 5 Java questions. The questions are paginated, with the first page showing 5 questions out of a total of 6.

Key	Value	Description
<input checked="" type="checkbox"/> Key		
<input checked="" type="checkbox"/> page	0	
<input checked="" type="checkbox"/> size	5	
<input checked="" type="checkbox"/> sortBy	id	

Body: 200 OK · 12 ms · 1.52 KB

```
1 [{"content":[{"id":1,"questionTitle":"Which keyword is used to inherit a class in Java?","options":["super","this","extends","implements"],"difficulty":"EASY","category":"JAVA","correctAnswer":"extends"}, {"id":2,"questionTitle":"What does JVM stand for in Java?","options":["Java Variable Method","Java Virtual Machine","Java Visual Module","Java Version Manager"],"difficulty":"EASY","category":"JAVA","correctAnswer":"Java Virtual Machine"}, {"id":3,"questionTitle":"Which interface provides the capability to store objects as key-value pairs in Java?","options":["List","Set","Map","Collection"],"difficulty":"HARD","category":"JAVA","correctAnswer":"Map"}, {"id":5,"questionTitle":"What is the main feature of Java?","options":["Object-Oriented","Procedural","Functional","Logic-Based"],"difficulty":"HARD","category":"JAVA","correctAnswer":"Object-Oriented"}, {"id":6,"questionTitle":"Which feature in Java allows code reuse through inheritance?","options":["Encapsulation","Polymorphism","Inheritance","Abstraction"],"difficulty":"MEDIUM","category":"JAVA","correctAnswer":"Inheritance"}],"pageable":{"pageNumber":0,"pageSize":5,"sort":{"empty":true,"sorted":false,"unsorted":true},"offset":0,"paged":true,"unpaged":false},"last":false,"totalElements":6,"totalPages":2,"size":5,"number":0,"sort":{"empty":true,"sorted":false,"unsorted":true},"first":true,"numberOfElements":5,"empty":false}]
```