

## 1) posting question

The screenshot shows the Postman interface with a POST request to `http://localhost:8080/api/questions`. The request body is a JSON object with the following fields:

```
1 {
2   "questionTitle": "what is @Autowired used for in Spring?",
3   "option1": "To declare a class",
4   "option2": "To inject dependencies",
5   "option3": "To connect databases",
6   "option4": "To create beans manually",
7   "correctAnswer": "To inject dependencies",
8   "difficultyLevel": "MEDIUM",
9   "category": "JAVA"
10 }
11
```

The response is a 200 OK status with a 14 ms response time and 459 B of data. The response body is a JSON object with the following fields:

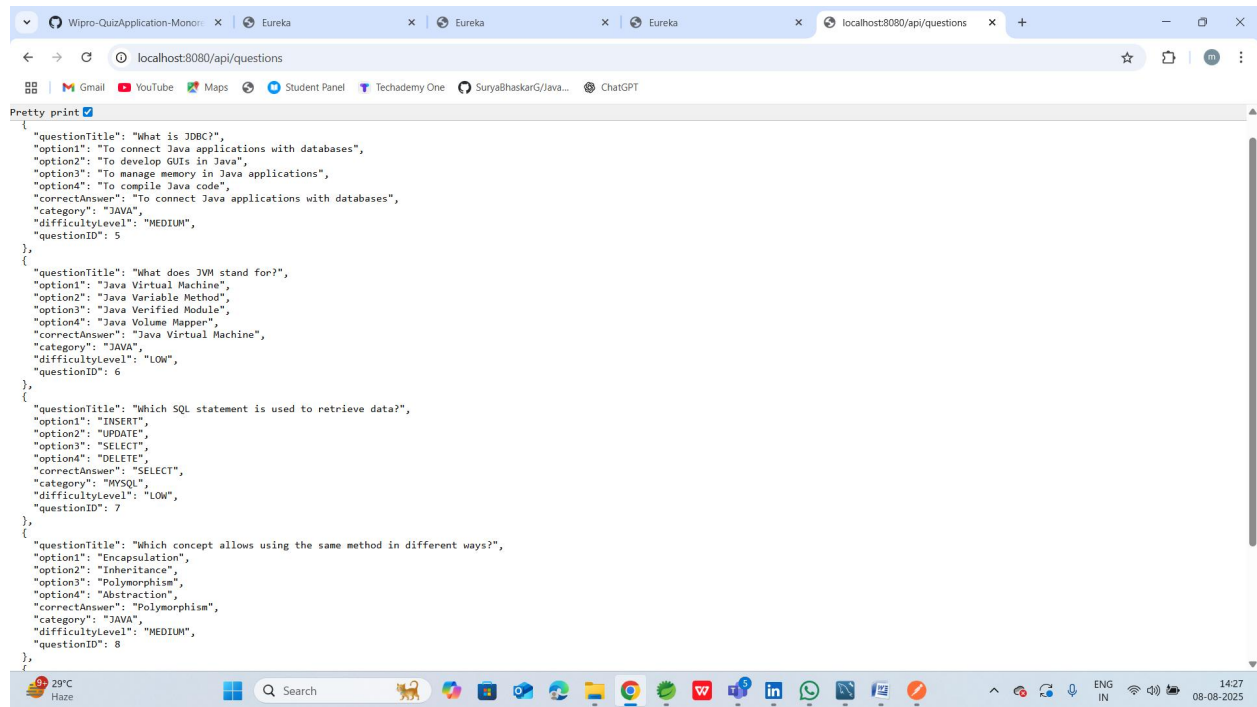
```
1 {
2   "questionTitle": "what is @Autowired used for in Spring?",
3   "option1": "To declare a class",
4   "option2": "To inject dependencies",
5   "option3": "To connect databases",
6   "option4": "To create beans manually",
7   "correctAnswer": "To inject dependencies",
8   "category": "JAVA",
9   "difficultyLevel": "MEDIUM",
10  "questionID": 9
11 }
```

## 2) getting the questions

The screenshot shows the Postman interface with a GET request to `http://localhost:8080/api/questions`. The response is a 200 OK status with a 11 ms response time and 1.52 KB of data. The response body is a JSON array containing three question objects:

```
1 [
2   {
3     "questionTitle": "what is JDBC?",
4     "option1": "To connect Java applications with databases",
5     "option2": "To develop GUIs in Java",
6     "option3": "To manage memory in Java applications",
7     "option4": "To compile Java code",
8     "correctAnswer": "To connect Java applications with databases",
9     "category": "JAVA",
10    "difficultyLevel": "MEDIUM",
11    "questionID": 5
12  },
13  {
14    "questionTitle": "what does JVM stand for?",
15    "option1": "Java Virtual Machine",
16    "option2": "Java Variable Method",
17    "option3": "Java Verified Module",
18    "option4": "Java Volume Mapper",
19    "correctAnswer": "Java Virtual Machine",
20    "category": "JAVA",
21    "difficultyLevel": "LOW",
22    "questionID": 6
23  },
24  {
25    "questionTitle": "which SQL statement is used to retrieve data?",
26    "option1": "INSERT",
27    "option2": "UPDATE",
28  }
29 ]
```

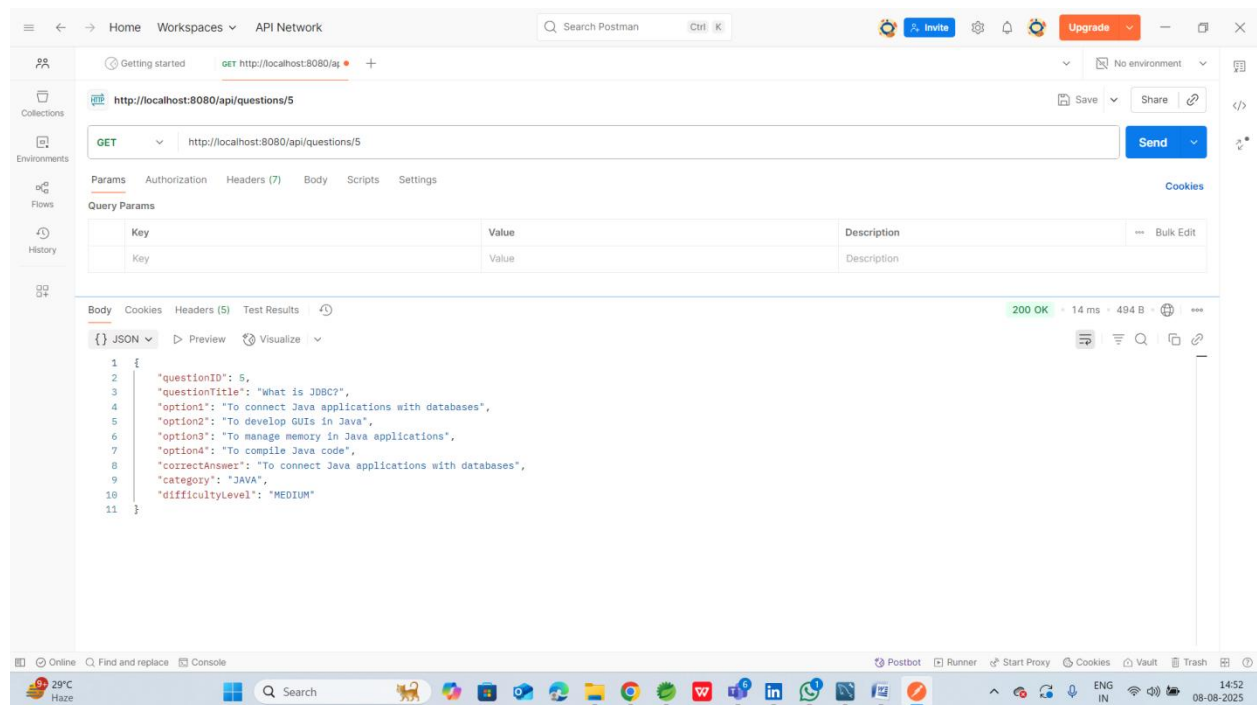
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The screenshot shows a web browser with multiple tabs. The active tab is 'localhost:8080/api/questions'. The address bar shows the URL 'localhost:8080/api/questions'. The page content displays a 'Pretty print' view of a JSON object representing a question. The JSON object is as follows:

```
{
  "questionTitle": "What is JDBC?",
  "option1": "To connect Java applications with databases",
  "option2": "To develop GUIs in Java",
  "option3": "To manage memory in Java applications",
  "option4": "To compile Java code",
  "correctAnswer": "To connect Java applications with databases",
  "category": "JAVA",
  "difficultyLevel": "MEDIUM",
  "questionID": 5
},
{
  "questionTitle": "What does JVM stand for?",
  "option1": "Java Virtual Machine",
  "option2": "Java Variable Method",
  "option3": "Java Verified Module",
  "option4": "Java Volume Mapper",
  "correctAnswer": "Java Virtual Machine",
  "category": "JAVA",
  "difficultyLevel": "LOW",
  "questionID": 6
},
{
  "questionTitle": "Which SQL statement is used to retrieve data?",
  "option1": "INSERT",
  "option2": "UPDATE",
  "option3": "SELECT",
  "option4": "DELETE",
  "correctAnswer": "SELECT",
  "category": "MYSQL",
  "difficultyLevel": "LOW",
  "questionID": 7
},
{
  "questionTitle": "Which concept allows using the same method in different ways?",
  "option1": "Encapsulation",
  "option2": "Inheritance",
  "option3": "Polymorphism",
  "option4": "Abstraction",
  "correctAnswer": "Polymorphism",
  "category": "JAVA",
  "difficultyLevel": "MEDIUM",
  "questionID": 8
},
}
```

## 3) getting questions by id

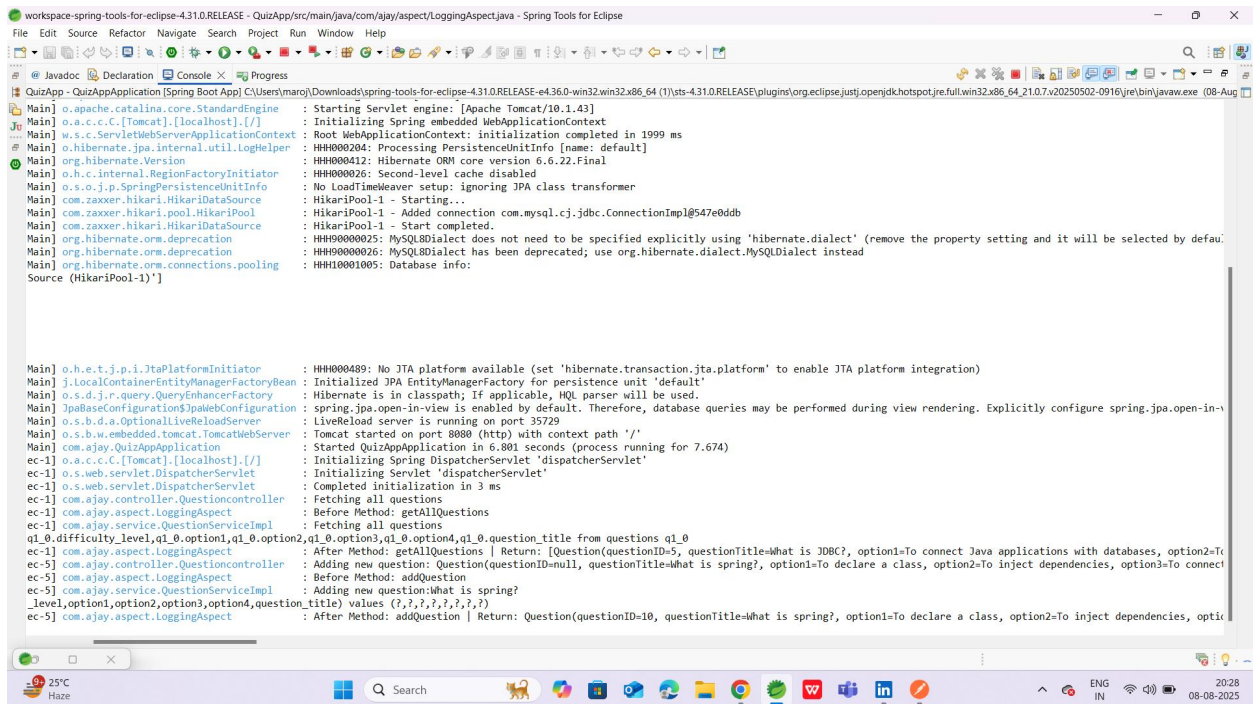


The screenshot shows a REST client interface with a workspace named 'API Network'. A GET request is configured to 'http://localhost:8080/api/questions/5'. The response is a JSON object representing a question with ID 5. The response status is '200 OK' with a response time of '14 ms' and a size of '494 B'. The JSON body is as follows:

```
{
  "questionID": 5,
  "questionTitle": "What is JDBC?",
  "option1": "To connect Java applications with databases",
  "option2": "To develop GUIs in Java",
  "option3": "To manage memory in Java applications",
  "option4": "To compile Java code",
  "correctAnswer": "To connect Java applications with databases",
  "category": "JAVA",
  "difficultyLevel": "MEDIUM"
}
```

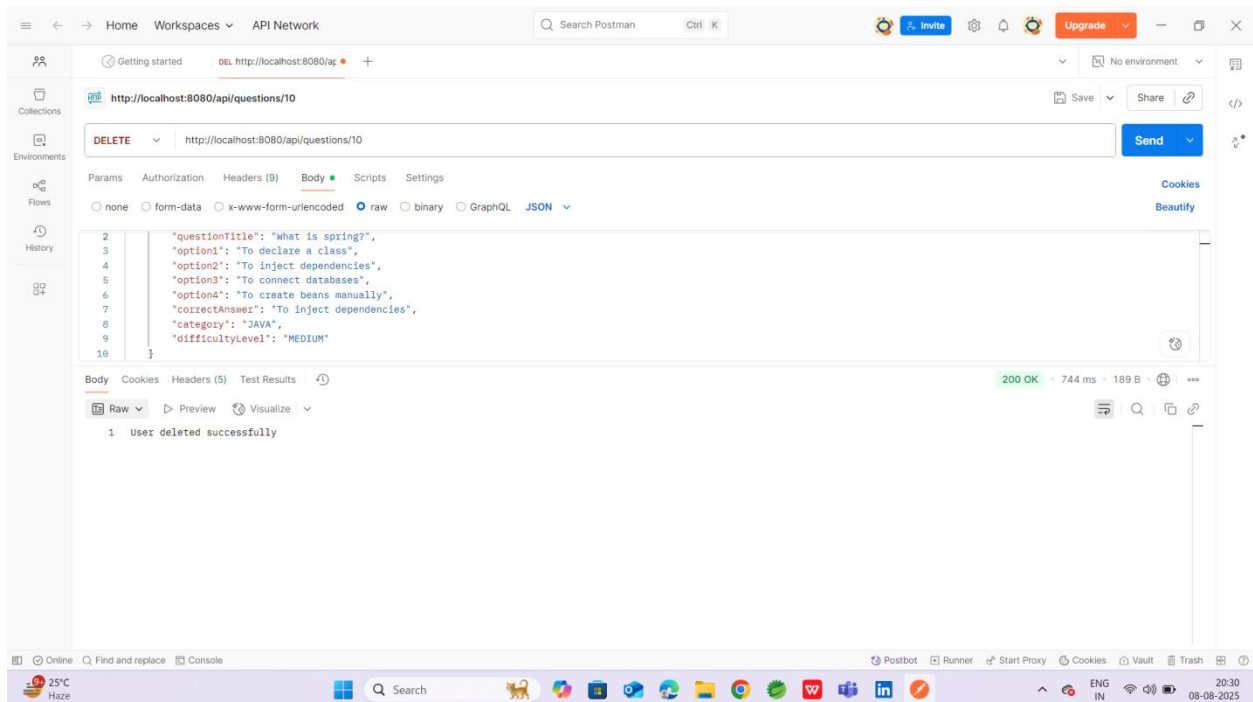
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## 4)aops logs



The screenshot shows the Eclipse IDE with the Spring Tools perspective. The 'Console' view is active, displaying the logs of a Spring application. The logs show the initialization of the Servlet engine (Apache Tomcat/10.1.43), the Spring application context, and the Hibernate ORM core version 6.6.22.Final. The application is running on port 8080 (http) with context path '/'. The logs also show the initialization of the Spring DispatcherServlet and the Spring MVC controller. The application is running on port 8080 (http) with context path '/'. The logs also show the initialization of the Spring DispatcherServlet and the Spring MVC controller. The application is running on port 8080 (http) with context path '/'. The logs also show the initialization of the Spring DispatcherServlet and the Spring MVC controller.

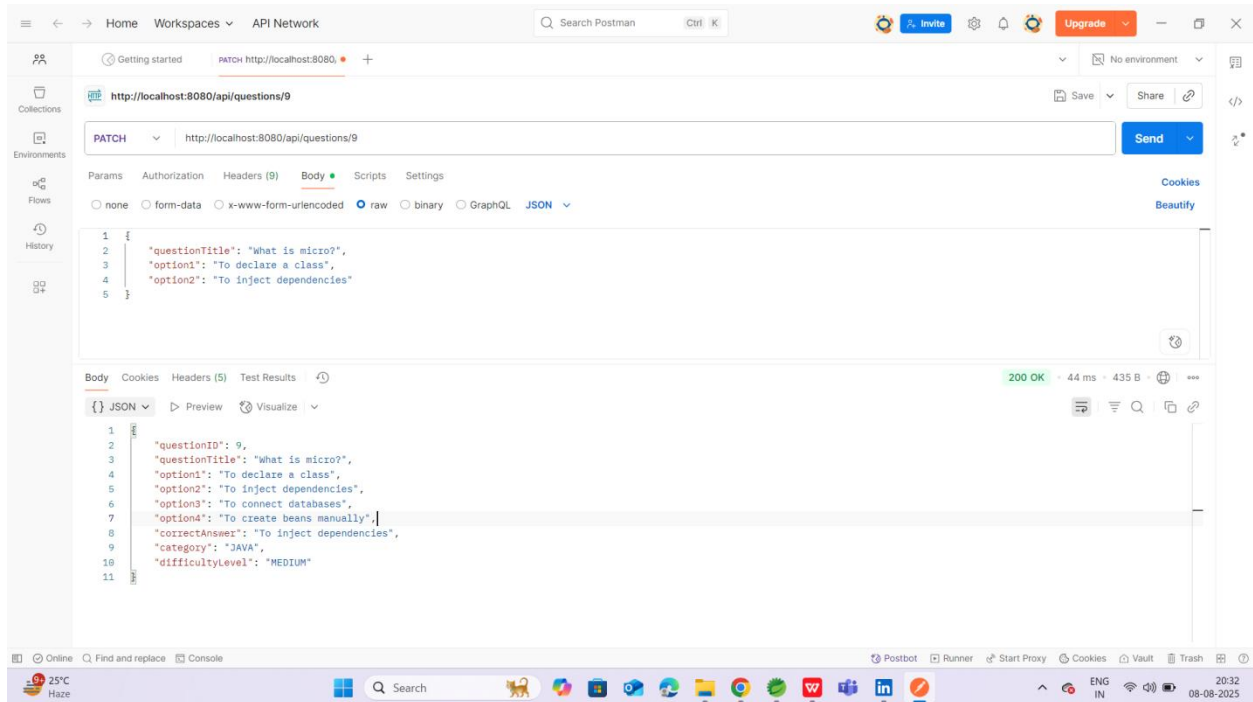
## 5)deleting the question by id



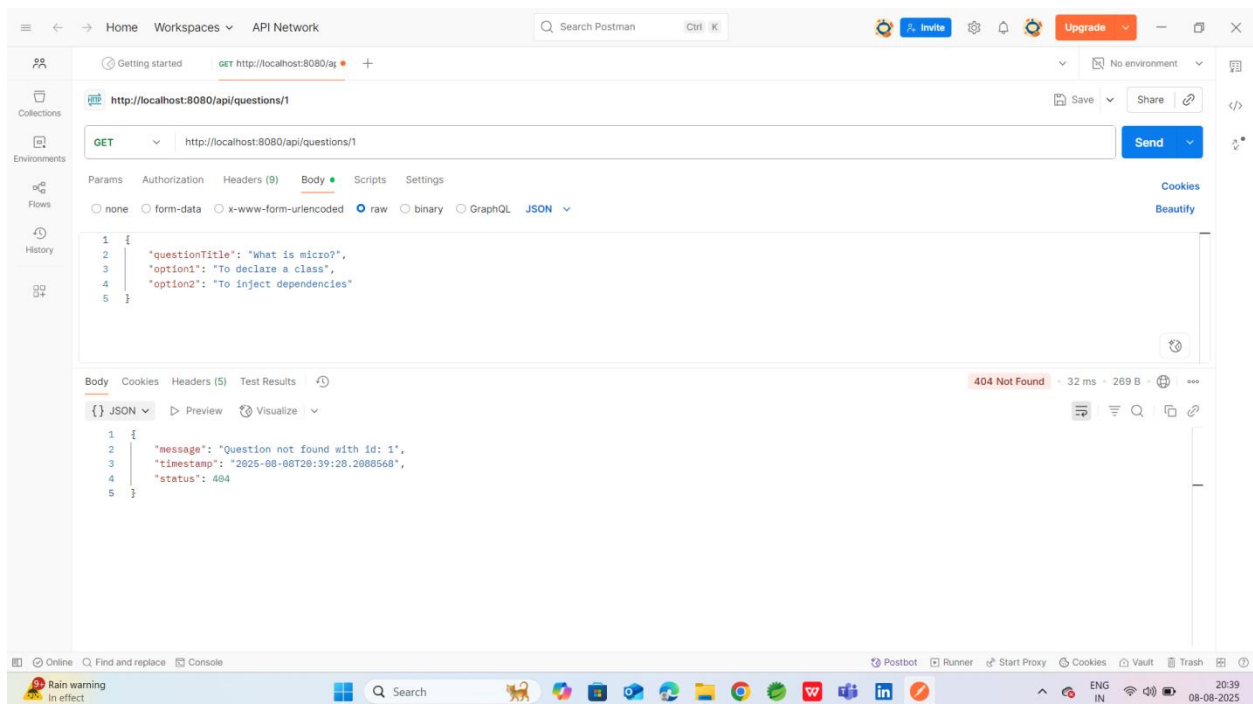
The screenshot shows the Postman application with a DELETE request to the endpoint `http://localhost:8080/api/questions/10`. The request is sent, and the response is `200 OK` with a status of `200 OK` and a response time of `744 ms`. The response body is `1 User deleted successfully`. The screenshot also shows the request body, which is a JSON object with the following fields: `questionTitle`, `option1`, `option2`, `option3`, `option4`, `correctAnswer`, `category`, and `difficultyLevel`.

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5) partially updating the question



6) custom exception



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7)adding the questions to quiz

The screenshot shows the Postman interface with a POST request to `http://localhost:8080/api/questions/create?category=JAVA&level=EASY&title=Java Basics Quiz`. The request body is a JSON object containing two questions. The first question has an ID of 4 and a title "Which statement is used to print text in Java?". The second question has an ID of 11 and a title "Which keyword is used to write a loop that repeats a fixed number of times?". The response is a 200 OK status with a 52 ms response time and 2.43 KB of data.

```
1 {
2   "id": 4,
3   "questions": [
4     {
5       "level": "EASY",
6       "category": "JAVA",
7       "id": 5,
8       "option1": "echo",
9       "option2": "System.out.print",
10      "option3": "System.out.println",
11      "option4": "print()",
12      "questionTitle": "Which statement is used to print text in Java?",
13      "correctAnswer": "System.out.println"
14    },
15    {
16      "level": "EASY",
17      "category": "JAVA",
18      "id": 11,
19      "option1": "loop",
20      "option2": "iterate",
21      "option3": "for",
22      "option4": "while",
23      "questionTitle": "Which keyword is used to write a loop that repeats a fixed number of times?"
24    }
25  ]
26 }
```

8)getting quiz by id

The screenshot shows the Postman interface with a GET request to `http://localhost:8080/api/questions/getQuizById/2`. The response is a 200 OK status with a 20 ms response time and 1.79 KB of data. The response body is a JSON array containing three quiz objects. The first object has an ID of 9 and a title "What is the default value of a reference variable in Java?". The second object has an ID of 1 and a title "What is JPA in Java?". The third object has an ID of 8 and a title "What is the boolean value for true in Java?".

```
1 [
2   {
3     "id": 9,
4     "questionTitle": "What is the default value of a reference variable in Java?",
5     "option1": "none",
6     "option2": "void",
7     "option3": "null",
8     "option4": "empty"
9   },
10  {
11    "id": 1,
12    "questionTitle": "What is JPA in Java?",
13    "option1": "Java Persistence API",
14    "option2": "Java Programming Application",
15    "option3": "Java Process Architecture",
16    "option4": "None of these"
17  },
18  {
19    "id": 8,
20    "questionTitle": "What is the boolean value for true in Java?",
21    "option1": "yes",
22    "option2": "i",
23    "option3": "true",
24    "option4": "false"
25  }
26 ]
```

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9)submitting the quiz by id

