

Quiz Portal

About :

DESCRIPTION

To create an online quiz portal with multiple REST APIs where users can browse different quizzes, attempt them, and find their scores and standings.

Description:

This project, which aims to create an online quiz application, is based on different REST APIs through which users can log in and take quizzes. After finishing the quiz, they can find their standing and scores based on their accurate responses.

There are two types of users on this quiz portal:

- Admin user
- Participants

Installation Guide:

1. GitHub link: <https://github.com/baljeet-singh97/JAVA-Projects/tree/main/Phase%203/QuizPortal>
2. Download the entire project as Zip in local system.
3. import the project in Eclipse IDE

- Postman needs a live HTTP server to process its requests.
- We can run the requests in sequence as semi-automated tests.
- We open the ellipsis menu on our collection and select *Add Request*.
- Our service accepts JSON data, so we select the *raw* radio button. In the dropdown to the right, we apply the *JSON (application/json)* content type.
- To run a single request, we just click the *Send* button.
- We see a list of tests that are marked green for success and red for failure.

- In the project postman concept is used to explain quiz portal.
- Quiz questions are added with four options and answer.
- Then different id is created for quiz.
- Each quiz contains different set of questions.
- Questions can be displayed using get method.
- Questions can be added using post method.
- Then user can attempt the questions.
- Then result will be displayed, out of the questions, how many are correct.
- User and admin authentication is coded using spring boot security.

- In application.properties all the connection requirements are specified.
- Annotations are used in spring boot code to print the content in localhost.

The screenshot shows the Eclipse IDE with the `QuestionsController.java` file open. The code defines a `QuestionsController` class with methods for adding, getting, and deleting questions. The console output shows the results of database operations performed by the application.

```

1 package com.simplilearn.demo;
2
3 import java.util.List;
4
5
6
7
8
9
10
11
12
13
14
15
16 @RestController
17 @RequestMapping("/admin")
18 public class QuestionsController {
19     @Autowired
20     private QuestionsService service;
21
22     //create new record
23     @PostMapping("/")
24     public ResponseEntity<Questions> addQuestion(@RequestBody Questions q) {
25         Questions question= service.addQuestion(q);
26         if(question!=null)
27             return new ResponseEntity<Questions>(question, HttpStatus.CREATED);
28         else
29             return new ResponseEntity<Questions>(question, HttpStatus.INTERNAL_SERVER_ERROR);
30     }
31
32
33     @GetMapping("/")
34     public List<Questions> getAllQuestion() {
35         return service.getAllQuestion();
36     }
37
38     @DeleteMapping("/{id}")
39     public ResponseEntity<Object> deleteQuestion(@PathVariable int id) {
40         if(service.deleteQuestion(id))
41             return new ResponseEntity<Object>("Question Deleted", HttpStatus.OK);
42     }
43 }

```

Console Output:

```

Hibernate: select questions0_id as id1_1, questions0_answer as answer2_1, questions0_opa as opa3_1, questions0_opb as opb4_1, questions
[Que. Capital of india ?, (a) Jaipur, (b) Delhi, (c) Punjab, (d) Haryana, _____, Que. Acer manufactures ?, (a) iPhones, (b) And
Hibernate: insert into answers (answer1, answer2, answer3, name, quizid) values (?, ?, ?, ?, ?)
Hibernate: select quizz0_id as id1_2, quizz0_questionid as question2_2, quizz0_quizid as quizid3_2 from quizz quizz0 where quizz0_quizi
[4, 5, 2]
Hibernate: select questions0_id as id1_1, questions0_answer as answer2_1, questions0_opa as opa3_1, questions0_opb as opb4_1, questions
[Delhi, Laptops, Elon Musk]

```

The screenshot shows the MySQL 8.0 Command Line Client with the following commands and results:

```

mysql> use quiz_portal;
Database changed
mysql> ;
ERROR:
No query specified

mysql> use quiz_portal;
Database changed
mysql> show tables;
+-----+
| Tables_in_quiz_portal |
+-----+
| answers                |
| questions              |
| quizz                  |
+-----+
3 rows in set (0.01 sec)

mysql> select *from answers;
+----+-----+-----+-----+-----+-----+
| id | answer1 | answer2 | answer3 | name | quizid |
+----+-----+-----+-----+-----+-----+
| 1  | Delhi  | Narendra Modi | Laptops | baljeet | 1 |
| 2  | Delhi  | Narendra Modi | Laptops | baljeet1 | 1 |
| 3  | Delhi  | Narendra Modi | Laptops | baljeet2 | 1 |
| 4  | Delhi  | Narendra Modi | Laptops | baljeet2 | 1 |
| 5  | Delhi  | Narendra Modi | Laptops | baljeet3 | 1 |
| 6  | Delhi  | Narendra Modi | Laptops | baljeet3 | 1 |
| 7  | Delhi  | Narendra Modi | Laptops | baljeet3 | 1 |
| 8  | Delhi  | Narendra Modi | Laptops | baljeet4 | 1 |
| 9  | Delhi  | Narendra Modi | Laptops | baljeet4 | 1 |
| 10 | Delhi  | Narendra Modi | Laptops | baljeet4 | 1 |
| 11 | Delhi  | Narendra Modi | Laptops | Ravi | 1 |
| 12 | Delhi  | Narendra Modi | Iphone | Ajeet | 1 |
| 13 | Elon Musk | Programming Language | NULL | Ajeet | 2 |
| 14 | Elon Musk | Programming Language | NULL | baljeet | 2 |
| 15 | Elon Musk | Programming Language | NULL | sindhu | 2 |
| 16 | Elon Musk | Programming Language | NULL | sunita | 2 |
| 17 | Elon Musk | Programming Language | NULL | kavita | 2 |
| 18 | Elon Musk | Programming Language | NULL | kavita | 2 |
| 19 | Elon Musk | Programming Language | NULL | kavita kumari | 2 |
| 20 | Elon Musk | Programming Language | NULL | dheeraaj | 2 |
| 21 | Elon Musk | Programming Language | NULL | dheeraaj | 2 |
| 22 | Elon Musk | Programming Language | NULL | Alex | 2 |
| 23 | Elon Musk | Programming Language | NULL | kabeer | 2 |
| 24 | Elon Musk | Programming Language | NULL | Rajesh | 2 |
| 25 | Laptops | Elon Musk | NULL | jack | 3 |

```

16	Elon Musk	Programming Language	NULL	sunita	2
17	Elon Musk	Programming	NULL	kavita	2
18	Elon Musk	Programming	NULL	kavita	2
19	Elon Musk	Programming	NULL	kavita kumari	2
20	Elon Musk	Programming language	NULL	dheeraaj	2
21	Elon Musk	Programming Language	NULL	dheeraaj	2
22	Elon Musk	Programming Language	NULL	Alex	2
23	Elon Musk	Programming Language	NULL	kabeer	2
24	Elon Musk	Language	NULL	Rajesh	2
25	Laptops	Elon Musk	NULL	jack	3
26	Laptops	Elon	NULL	jackMaa	3
27	Laptops	Elon	NULL	ironMan	3
28	Laptops	Elon Musk	NULL	ironMan2	3
29	Laptops	Elon	NULL	ironMan2	3
30	Laptops	Elon	NULL	ironMan3	3

30 rows in set (0.00 sec)

mysql> select * from questions;

id	answer	opa	opb	opc	opd	que
2	Delhi	Jalpur	Delhi	Punjab	Haryana	Capital of india ?
3	Narendra Modi	Rahul Gandhi	Narendra Modi	Arvind Kejriwal	Amit shah	Prime Minister of india ?
4	Laptops	iphones	Android devices	Laptops	ipads	Acer manufactures ?
5	Elon Musk	Anil Ambani	Jeff Bezos	Elon Musk	bill gates	Richest Person in the world ?
6	Programming Language	Software	Programming Language	electornic device	Game	Java is a ?
7	seven	five	eight	seven	six	days in a week ?

6 rows in set (0.00 sec)

mysql> select * from quizz;

id	questionid	quizid
1	2	1
2	3	1
3	4	1
4	5	2
5	6	2
6	7	2
7	4	3
8	5	3

8 rows in set (0.00 sec)

mysql>