



Quiz App:

In this project you will develop a quiz app. This app should have CRUD operations for a Quiz Entity that is working with a PostgreSQL database. Only a logged-in user can use these CRUD operations. In this app, you should register a user with an endpoint. You should develop a JWT refresh and access token mechanism for handling user security. We expect you to implement this application with some features as detailed below:

Features required to complete this project:

- Project should be implemented in Spring Boot
- Project design is up to your creativity
- Follow MVC architecture
- Use DTOs for mapping entities.
- Use Spring Security with refresh and access tokens to implement user login
- There should be a Swagger UI documentation for each endpoint.
- You should deploy your application to AWS EC2 instance so it can be accessible from internet

Useful Links:

- <https://spring.io/projects/spring-boot>
- Spring Boot Tutorial:
▶ [Spring Boot Tutorial | Full Course \[2021\] \[NEW\]](#)
- Spring Boot Data Jpa Tutorial:
▶ [Spring Boot Tutorial | Spring Data JPA | 2021](#)
- What is JWT?
▶ [What Is JWT and Why Should You Use JWT](#)
- NoSql vs Sql
▶ [SQL vs NoSQL or MySQL vs MongoDB](#)
- Spring Boot Security JWT Tutorial
▶ [Spring Boot and Spring Security with JWT including Access and Ref...](#)
- Spring Boot Swagger UI Tutorial
<https://www.baeldung.com/swagger-2-documentation-for-spring-rest-api>



- Spring Boot AWS EC2 Deployment
▶ Deploy Java Spring Boot Application on AWS EC2 instance

PROJECT DETAILS

Each Quiz should have a question and a list of answers

There should be create, update , delete , getList and getDetail endpoints for Quiz Entity.

These endpoints should be secure that can only be accessed with a valid access token.

Each endpoint should be documented in Swagger-UI.

Each request or response should use a DTO(Data Transfer Object).

Your application should be accessible from the internet with a port number 8090.