

Creswave Limited Java Code Test

Thank you for your interest in the Java Spring Boot Developer position at Creswave. As a next step in our hiring process, we would like to assess your skills through a more complex code test. Please find the details of the code test below:

Instructions

1. Create a new repository on your GitHub account named CRESWAVE_CODE_TEST
2. Implement the following features
 - Design and implement a RESTful API for a blogging platform.
 - The blogging platform should have the following functionalities:
 - Users should be able to register, login, and manage their profiles.
 - Authenticated users can create, read, update, and delete blog posts.
 - Users can comment on blog posts, and comments can be edited and deleted.
 - Implement role-based access control (RBAC) where only authorized users can perform certain actions (e.g., only administrators can delete posts).
 - Implement pagination and sorting for blog posts and comments.
 - Implement search functionality to search for blog posts by title or content.
 - Write comprehensive unit tests and integration tests for your implementations.

Ensure your code is well-organized, maintainable, and follows best practices. Document your API endpoints and provide instructions on how to run and test your application.

Once you have completed the task, push your changes to your repository.

Share the GitHub repository link with us via email at
developers@creswave.co.ke

Guidelines

- Use Java and Spring Boot for implementing the features.
- Utilize Spring Security for authentication and authorization.
- Implement validation for user inputs and error handling.
- Use an appropriate database (e.g., PostgreSQL, MySQL) to store user data, blog posts, and comments.
- Ensure your code is well-documented, including comments in complex or critical sections.
- Pay attention to performance considerations and scalability.
- Write clear and concise commit messages.
- Feel free to use any additional libraries or tools if necessary, but justify your choices.

Additional Information

- If you have any questions or need clarification on the requirements, feel free to reach out to us.

Deadline

Please submit your solution within 5 days.

We look forward to reviewing your code and discussing it further with you.