

Pretest

Java Developer

Thank you for your interest in our company and in the position! In order to get a better idea of your development capabilities, we have prepared a small task for you below.

Implementation of a Sudoku Web Service

Please show us how you implement a RESTful web service that can validate successive moves on a Sudoku board. It should also be able to recognise and indicate if the Sudoku is finished with the current move.

You can find a very detailed explanation of the Sudoku rules at <https://en.wikipedia.org/wiki/Sudoku> (first paragraph).

Scope

- Please implement only the backend and leave the creation of a colourful and flashy frontend over to the frontend developers.
- Your web service should use Java and Spring as we use both heavily.
- Since we put quite some emphasis on tests, we also would like to see how you verify the functionality of your service.
- You may use additional libs or techniques if you think they're sufficient to solve the task.
- We don't expect you to create random boards; you may use our board from the following page.

Guidance

- We wouldn't ask anyone to do a coding puzzle that we haven't done ourselves, so the people looking at your code understand the problem we're asking to be solved.
- It took us around 5 hours of effort when doing this, so please use this as an indicator of effort required.
- We also like to see your 'long division' i.e. the working out of the problem in code, so please use a public git repository (like GitHub) and add commits for significant working steps.
- Run / build instructions are seen in a positive light, as it indicates you know how to work in that environment (Maven or Gradle)

Example Sudoku board

7				4		5	3	
		5			8		1	
		8	5		9		4	
5	3	9		6				1
				1				5
8			7	2		9		
9		7	4					
				5	7			
6							5	