

SOFTWARE DEVELOPER   
SKILLS ASSESSMENT

Back End

October 2020

**Your Task**

Your task is to create a REST API that supports an address book application. It should store contacts containing a​t least the following information:

* first and last name
* phone number
* address
* email address

Your API should be able to add contacts, remove contacts, update contacts, and return a list of all contacts. It should store and retrieve entries in a database using JDBC, JPA, or an ORM of your choice.

The address book must be able to sort by at least one field (preferably last name).

Our core back-end stack uses Java EE (without Spring) and Hibernate to create a REST API. Usage of these specific technologies are a plus, but not required for this assessment. Your API should be developed in Java, but you should choose the frameworks that you are most comfortable with and understand the best.

Note: the features listed below are optional. Exclusion of these features will not reduce your chances of getting hired.

An excellent implementation will be able to sort the entries by any field (first name, last name, phone number, email address, etc.).

An excellent implementation will be able to display a filtered list of contacts matching certain criteria (e.g., only last names beginning with the letter 'M’).

**About this Task**

*We estimate that this task should take anywhere from 2-4 hours to complete, depending on individual skills. If you believe this is unreasonable or are unable to find time to complete this assessment, please contact us and we will make our best effort to accommodate you with an alternative assessment.*

**Submission and Follow-up**

*You may submit your solution as a link to a GitHub repository or via a file sharing service like Dropbox, Google Drive, OneDrive, etc.*

*Once we receive your solution, we will schedule a follow-up meeting to go over it with you. In that meeting, you will be asked to share your screen and demonstrate the working application before walking us through your solution’s code. The purpose of this meeting is to better understand your thought process and problem-solving techniques. While we may ask you why you implemented something a certain way, or ask you to make modifications to your code, we will not try to trick you or expect you to know all of the answers. If you do not know something, you may use any method that you would normally use, including searching the Web, to try to find the answer.*