



Back-end Software Engineer

Candidate Assignment

We would like to express our gratitude for meeting you the other day. As the next step of our recruitment process, we would like you to complete a coding assignment, so that we can get a feel for your coding skills and a better understanding of what it would be like to work with you.

Project Description

The assignment is to implement a warehouse software. This software should hold articles, and the articles should contain an identification number, a name and available stock. It should be possible to load articles into the software from a file, see the attached *inventory.json*.

The warehouse software should also have products, products are made of different articles. Products should have a name, price and a list of articles of which they are made from with a quantity. The products should also be loaded from a file, see the attached *products.json*.

The warehouse should have at least the following functionality;

- Get all products and quantity of each that is available with the current inventory
- Remove (Sell) a product and update the inventory accordingly

Details to consider

The primary values for the code we look for are: simplicity, readability, maintainability, testability. It should be easy to scan the code, and rather quickly understand what it's doing. Pay attention to naming.

Notes

- You have up to **7 days** to develop the application. It's not expected that you finish all of the described milestones during this period. So, please send us the project wherever its state is at the end of the 7 days.
- Please provide the project in a **private** GitHub/GitLab repository. Once you are done working on the assignment, add the username **@miladbarzideh** to the collaboration list, so that we can access your code for review.
- Consider the project to be fully functional. It should be ready to be used from a client app and to have the minimum requirements of any real-world project.
- If you have any questions, please do not hesitate to contact **milad.barzideh@snapp.cab**