

Software Engineer - Coding Challenge

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We understand and appreciate the level-of-effort necessary to complete coding challenges.

Thank you for your time and consideration.

Please implement the coding challenge in Clojure and/or ClojureScript.

Challenge Options

For this coding challenge, you have up to one week to submit your code or provide access to a code repository for one (1) of the options below:

TODO Service/API

Develop a service and API for CRUD operations for a TODO list application supporting different todo item states and multiple todo lists.

eCommerce Service/API

Develop a service and API for an eCommerce application that supports item inventories, shopping cart, and checkout.

Labelled Property Graph (LPG)

Develop the core features of a labelled property graph (LPG) store (in-memory) with support for vertices and edges (with properties).

Operations on the LPG may be performed in-memory and there's no real-time persistence requirement, but support for import/export from/to files is required.

Challenge Requirements

For the selected challenge, each of the following should be implemented in addition to the core challenge functionality:

- unit tests with core functionality coverage
- logging mechanism
- documentation in the `README.md` (or similar) file covering:
 - any configuration/environment requirements
 - basic usage and code examples (if applicable)
 - any other developer information you think is applicable

Questions?

The challenges are intentionally general and open for interpretation to allow you to make design and coding decisions as points of discussion in the panel interview call, but if you have any questions or want clarification, please reach out to your recruiting contact.

Submission

Please submit your solution code base as a compressed/zipped file or as an accessible link to your challenge code repository (github, githlab, etc) to your recruiting contact within one (1) week of receiving the challenge.

Follow-Up Panel Call

The submitted code base will be reviewed by our engineers before a code review, live coding, and panel interview call is scheduled.

In the follow-up panel call, engineers will ask you questions about your code base related to your decisions on challenge approaches.

Be prepared to answer questions about your design and coding decisions as well as being able to share your screen and development environment to live code to extend your code base.