iptiQ Software Engineering Internship Technical Assignment

Goals

The objective of this assignment is to give you the opportunity to demonstrate how you approach a complex scenario and model a possible solution. At this stage, we are more interested in your thought process than a complete and detailed solution. The deliverables for your assignment will be the starting point for our follow-up conversation.

Options

Please choose only one of the following options.

Option 1: Coding

Design and build a simple inventory service. The inventory stores items. Items should have a name, a quantity, and a price. The service should be able to list all the items in the inventory and have a way to add and remove items and to update their details. You need to develop an initial mock implementation of the service using your preferred programming language.

Option 2: System Design

iptiQ offers a purchase journey where users can add insurance coverage to their cart and complete their orders. At the moment, the order is finalized offline. We want to add the capability of finishing the payment as part of the journey. This will require the development of a payment service. We would like to have an MVP of such a service that accepts credit cards. You need to design the payment service. Please try to use the most abstract concept of credit cards, not going into specific details of Visa or MasterCard.

Deliverables

Create a high-level overview diagram of the service and/or the code supporting your design. Add a general description of the main features and capabilities. Prepare a list of questions that you would like to discuss with the team that you will be working with on the implementation of your design.

Notes

- We expect you to spend at most 2 hours on this assignment.

- We expect the deliverable within 2 days from the moment that you have received it.

- Please push your solution to GitHub and invite `@iptiqinterns` to your repository.

Good luck and please don't hesitate to reach out.