

## Introduction

Thank you for taking the time to do this skill test. We really appreciate your dedication.

It should take **3 hours** to go through this test. Feel free to scope it in a way you are comfortable with, every deliverable, even incomplete, is helpful to us to understand how you approach a problem.

When finished, please submit your code in a compressed archive zip via email.

## Goal

At TreasuryX, one of the main challenges we have is to expose a clean, easy to use API to our customers that abstracts heavy protocols and transport layers complexity.

The goal of exercise is to expose a secure web service that takes one payment request in JSON format and perform the following:

- 1. Allow only authenticated requests, we will be using **basic HTTP authentication**, we are expecting the following credentials
  - username: Your last name uppercase
  - password: xxxx
- 2. Validate the request according to the provided JSON schema and example
- 3. If the request is not authorized or not valid, return the corresponding HTTP error
- 4. Store the request data in Sqlite database

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- 5. Generate the payment XML file and depose it in the bank folder, an HTTP 200 response is expected if this succeeds
- 6. After the file deposit by few seconds we expect the bank to respond by depositing a response file containing the ID and the status of payment (PROCESSED or REJECTED), we expect the payment status in the database to be updated accordingly.

## Instructions

It's recommended to use Go programming language

You can access the Internet for information.

You can use open source libraries when relevant

Please provide a <u>README.MD</u> explaining your approach, choices and the overall solution

## **Time**

We expect the test to take less than 3 hours, if you would like to take more, explain the motivation behind in the <u>README.md</u> file

#### **Test resources**

Please download the following archive: <a href="https://drive.google.com/drive/folders/1Tj-BmfBcxLOXrbXw4LgHBGLkGcoeZyke?usp=sharing">https://drive.google.com/drive/folders/1Tj-BmfBcxLOXrbXw4LgHBGLkGcoeZyke?usp=sharing</a>

You can find the following files to help you on your way:

- request\_sample.json : the expected payment request,
- request\_schema.json: the corresponding JSON schema.
- payment.xsd: schema of the xml expected by the bank.
- payment\_sample.xml: sample xml file payment as expected by the bank
- bank\_response\_sample.csv: sample bank response file

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## **Environment variables:**

- BANK\_FOLDER: bank folder where to deposit payment file and load response
- SQLITE\_DB\_FILE\_LOCATION: Location of the Sqlite database

# **Feedback**

We would like to have your feedback regarding the test by completing the fallowing:

1.	How much time did you spend performing this exercise?
	Less than 2h
	☐ 2h to 3h
	☐ 3h to 4h
	<b>为</b> 5h to 6h
	☐ More than 6h (your time:)
2.	How proud are you of your work?
	☐ Very proud
	K Fairly proud
	☐ Good enough
	□ Somewhat disappointed

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