**Division / Team / Role: (Platforms) Content, Insights & Policy / GovSupply & GovWallet / Tech - Software Engineer : GovSupply & GovWallet**

**Brief Description of your Div/ Team:**

[GovWallet](https://wallet.gov.sg) is a digital wallet module which aims to help in the distribution of government disbursements and allow citizens to spend their received government disbursements through existing payment channels (e.g. PayNow, NETS, etc.) conveniently.

[GovSupply](https://www.supply.gov.sg/) is a solution to help our partners in their distribution process. It is a web app used by staff in the distribution of physical items such as vouchers, TraceTogether (TT) Tokens or Antigen Rapid Test (ART) Kits. We also collaborate with vending machine vendors to allow the distribution of physical items through vending machines.

**Assessment Title: GovSupply & GovWallet Take-Home Assessment**

**Overview/Background:**

It's the Christmas season and you've been given the honorable task of distributing gifts to the teams in your department. Each team can send any representative to redeem their teams' gift. At the redemption counter, the representative has to show their staff pass as proof of their identity. Assume that each staff pass is a unique ID.

**Assessment Instructions / Case Study Scenarios:**

You're given a file mapping staff pass ID to their corresponding team names. For every staff in the file, they can only belong to one and only one team. This is a CSV file with the headers `staff\_pass\_id`, `team\_name` and `created\_at`. `created\_at` is the timestamp when the mapping record was added. The timestamp is in epoch milliseconds.

| staff\_pass\_id | team\_name | created\_at |

| --- | --- | --- |

| STAFF\_H123804820G | BASS | 1623772799000 |

| MANAGER\_T999888420B | RUST | 1623772799000 |

| BOSS\_T000000001P | RUST | 1623872111000 |

**How to submit your answers:**

Given this information, you are to build a system using either Typescript (Node.js) or Golang that supports 3 functions:

1. Perform look up of the representative's staff pass ID against the mapping file

2. Verify if the team can redeem their gift by comparing the team name against past redemption in the redemption data

3. Add new redemption to the redemption data if this team is still eligible for redemption, otherwise, do nothing and send the representative away

The redemption data should at least contain the following information: `team\_name` and `redeemed\_at`. The latter refers to the timestamp the redemption occurred in epoch milliseconds.

You should include unit tests for your solution.

Please commit your code to a GIT repository. Do send to us the URL to it once you're done.

Good luck and enjoy!

**Deadline:**

Please complete the assessment within 5 calendar days upon receiving this email. Thereafter, you might be invited for a chat with our tech assessors to discuss your submission.