Purpose

The purpose of this exercise is not to give a "gotcha" question or puzzle, but a straight-forward (albeit contrived) example of the kind of requirement that might arise in a real project so that we have shared context for a technical conversation during the interview. We are interested in how you approach a project. Use of your favorite libraries or frameworks is fine, but not required. How you demonstrate the correctness of your implementation is up to you.

Requirements

Create a command line program in a language of your choice, which retrieves the information of a GitHub User and creates a new Contact or updates an existing contact in Freshdesk, using their respective APIs.

- Use GitHub Rest API v3. Documentation is available at https://developer.github.com/v3/ .
- Use Freshdesk API v2. Documentation is available at https://developers.freshdesk.com/api/ .
- Your program should be able to get GitHub user login (username) and Freshdesk subdomain from the command line.
- For authentication assume GitHub personal access token is given in GITHUB_TOKEN environmental variable and Freshdesk API key is given in FRESHDESK_TOKEN environmental variable.
- Transfer all compatible fields from the GitHub User to the Freshdesk Contact by your judgment.
- Please provide unit tests for the main program functionality. Create a separate module for the unit tests.
- *Optional*: Persist login, name, and the creation date of the GitHub user in a table in a relational database of your choice. If you choose to work on this optional task, please include the create script of your database as a file in your repo.
- You may also use any libraries which will help you with the task, such as requests or mock, except for API clients for Freshdesk or GitHub.
- While you may create trial accounts in GitHub and Freshdesk, this is not a requirement. You can use the examples from the documentation as test data.
- Please provide a README.md file with instructions on how to run the program and the tests.

Time Investment

- We expect the task to take 4-5 hours
- If you find yourself spending more time, do let us know.

Powerpoint?

- Please don't prepare any PowerPoint slides. We will ask you questions from your resume and jump right into the code.

Where should I upload?

- Please don't mail your solution.
- We would prefer if you uploaded it to a private repo and granted us permissions. Otherwise upload it to a private storage (S3, Dropbox) and give us a link.

More Questions?

- Please don't hesitate to ask the hiring manager any questions you have.