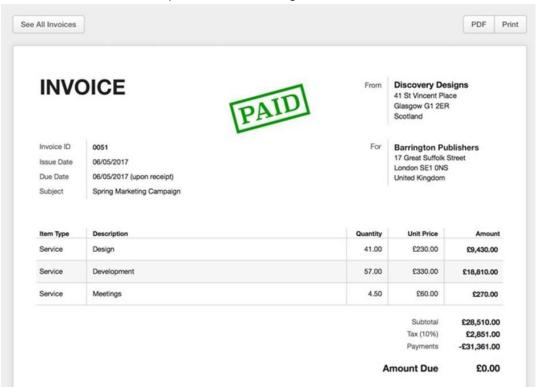# GO ASSESSMENT TEST
(v 8.81)

Hi! 👋

As part of the assessment process, we need you to make APIs based on the design guidelines that we provide. We need you to complete this assessment within 3 days. No hurry, take your time, and give your best shot.

1. Analyze the example invoice below and create a table structure as needed to accommodate all the inputs in the following invoice

2. Create APIs that is needed based on this Design Guidelines: **Figma Link**

Our Expectations:

1. *Database & Table structure follow *Database Guidelines* and *Best Practices*
2. APIs method, endpoint, request & response follow *Best Practices*.
3. Your API is working well without error
4. Clean code

Must-Have:

1. Use Go 1.20.x & MySQL 5.7
2. Handle error state/response well with clear & sensible messages
3. Your solution must have a readme file with detailed instructions to install, run & test the application
4. Clear git commit messages. **Do not** publish your git into any repository
5. Using any well-known architecture (will it be MVP, MVVM, or MVC you decide what you are comfortable with)
6. Using any well-known design pattern, again it's your choice to use what you are comfortable with
7. Create Postman Collection for every APIs

Bonus Points:

1. Use well-known Go Library
2. Provide unit tests with good coverage to validate that the function works as intended
3. Able to handle big data (> 1.000.000 records) with the best possible load time
4. Use Dependency Injection
5. Create web application based on design guidelines that has been provided and utilize APIs that has been created

What should I do after I Finish?

1. Run your application, and make sure it works perfectly
2. Do not push your application to any public repository
3. Make a zip archive out of your project along with the .git folder & postman collection and named it "**assessment_go_source_code_[your_name].zip**"
4. Upload your zip file to any online cloud storage of your choice, ex: Google Drive, or Dropbox (Please make it accessible without restriction)
5. Mail the link to your HR contact with the subject "**[ASSESSMENT] Go - your name**"

Further Questions

If you have any doubts, please reach out to your HR contact, they'll ensure that someone from the engineering team gets back to you.

<u>We are wishing you all the best!</u>

Your creativity, and the ability to solve problems with clean and easy-to-read code. Even though it's very small in scope, please show us how you would use the language and conventions to structure things in a clear and maintainable way and suitable for production.

Once again, we don't want you to hurry and submit your assessment. Take your time, review your code, double-check it, and show us your best work, code that you can be proud of. We are wishing you good luck and hopefully, we can talk soon. Cheers!