Developer Challenge - Invoicing

Hi there, thanks for taking the time to show us your skills! By stepping up to this challenge, you give us a chance to see if and how you would fit in with the team in terms of technical capability.

We leave a lot of things in this challenge up to you and that is by design; if it's not specifically mentioned, feel free to pick and choose and inform us about those choices.

We prefer that the assignment is written in PHP, however you're free to do it in your language of choice - it's the way you tackle this challenge that interests us!

Don't hesitate to ask if anything is unclear.

Good luck!

Our focus points

You have all the freedom in the world to solve the challenge as you see fit. We'll not judge you on the choice of framework, database, etc but we will be on the lookout for a few things:

- Your approach to development problems in general
- Your proficiency in understanding and writing queries
- Your ability to create effective solutions

Just working code is not enough, we highly value good, clean code. Your code should be secure and well structured, it should be easy to understand and capable of scaling.

Time constraints

Every one of us has gone through the phase you're in now: doing interviews while working a full work week at your current job. And we bet every company is asking you to complete their own challenge, just like we do, within a certain time frame. It's a busy time for you and we realise that.

The thing is: we can't distinguish between excellent candidates that haven't put in the time and the ones that did put in a lot more time but wouldn't have the technical skills yet to feel comfortably challenged in our teams.

If you feel like you don't have enough time to show off your skills, simply ask us for more. It's ok, really! But we do like to know that **up front**, not on the day you agreed to turn it in; actually just as soon as you realise that you need just a day or two more.

The Challenge

We'd like you to build a UI and API that allows a user to capture invoices as shown in the image below, and store it in a database. You can assume that your solution is part of a bigger system, so you do not need to implement authentication or additional list/view screens. Keep in mind how invoices would be handled in a real system - some elements would be pre-configured or selectable, rather than being captured from scratch.

You can use any framework and database you like, and you can pre-populate the database however you wish. Our only requirement is that you use plain SQL queries, and not an ORM. We will review and test your solution as we would production code, meaning input validation/error handling is important.

Company Name

[Street Address]
[City, ST ZIP]
Phone: [000-000-0000]
Fax: [000-000-0000]
Website: somedomain.com

INVOICE

DATE	12/9/2019
INVOICE #	[123456]
CUSTOMER ID	[123]
DUE DATE	1/8/2020

BILL TO

[Name]
[Company Name]
[Street Address]
[City, ST ZIP]
[Phone]

DESCRIPTION	TAXED	AMOUNT
[Service Fee]		230.00
[Labor: 5 hours at $75/hr]		375.00
[Parts]	X	345.00

Subtotal	950.00
Taxable	345.00
Tax rate	6.250%
Tax due	21.56
Other	-
TOTAL	$ 971.56

OTHER COMMENTS

1. Total payment due in 30 days
2. Please include the invoice number on your check

Make all checks payable to
[Your Company Name]

If you have any questions about this invoice, please contact
[Name, Phone #, E-mail]
Thank You For Your Business!