

## Assignment

**Submission Date: Tuesday, 20<sup>th</sup> February, 2021 (by 11:59pm)**

We expect the solution to this problem to be written using the **Ruby on Rails framework** where applicable. Please use a git repository to share your solutions and send us a link to the repository. Please include a README in your repository with a brief explanation of your design and assumptions, as well as detailed instructions to run your application.

Kindly note that we expect you to only work on the backend of the application. **It is not necessary to implement the frontend.**

**We assess a number of things including the design aspect of your solution and your object oriented programming skills. While these are small problems, we expect you to submit what you believe is production-quality code - code that you would be able to run, maintain, and evolve. Tests are expected as well as readable, simple idiomatic code.**

Please reach out if you have any questions about the assignment.

## **Assignment: Billable Hours**

You work for one of the top law firms in Ghana. To be as efficient as possible, your firm uses a billable rate system. This means every lawyer, depending on their grade has a billable rate and for any project they work on, must send in the total number of hours they've worked on so that the finance team can create invoices for clients to pay. The lawyers send their timetable in the following format:

Employee ID	Billable Rate (per hour)	Company	Date	Start Time	End Time
1	300	MTN	2019-08-01	09:00	17:00
1	300	Fidelity	2019-08-02	09:00	14:00
1	300	Julius Berger	2019-08-02	15:00	17:00

The finance team has requested your help to be effective with revenue collection.

Part 1: Implement an API that allows lawyers to submit and manage their timesheets. (Create new timesheet, View, Update, Delete)

Part 2: Implement an API that allows the finance team to generate invoices for each client in the following format

Company: <Insert Company Here>

Employee ID	Number of Hours	Unit Price	Cost
		Total	