Introduction

Thank you for undertaking this assessment.

This document outlines the tasks we would like you to attempt, together with some basic setup information on how to get started.

Once you have finished, please return your updated solution by the specified means and within the agreed timeframe (if any). Please be sure to include all necessary files/resources required to build and run your solution.

If you think it would be beneficial, please feel free to include a commentary or description to support any decisions you have made, or any challenges you faced.

Good luck!

Setup

Alongside these instructions, you should find:

1. VS2017 solution folder
2. A databases folder containing a T-SQL database creation script.

In order to run the application/solution, you will need to.

1. Create a SQL 2012 (or later database)
2. Execute the T-SQL database creation script against your new database
3. Edit the connection string in the `web.config` so that the application connects to your new database.

The context…

A company (let's call them 'ABC ltd') have decided to implement a company-wide bonus scheme.

The company plans to allocate a proportion of their profits to a bonus pool. Once the size of the bonus pool is agreed, this total amount will be divided amongst their employees. The amount each employee will receive will depend on their annual salary: The proportion of the bonus pool allocated to an employee should be the same as the proportion of the total wage budget that their salary represents.

If an employee's salary is 15% of the total wage budget for the company (i.e. the total of all salaries of all employees), then they will receive 15% of the bonus pool. So, to elaborate, if the bonus pool was £123,456.00; this employee would receive £18,518.40 (i.e. 123,456 x 0.15)

The task at hand…

Another developer has been tasked with building a prototype web app to calculate the individual bonus amounts for each employee, but they have been struggling.

Their work so far can be found in the attached solution.

Please refactor the application, so that:

a) It adheres to SOLID principles
b) The calculations are unit tested
c) It works :)