

**PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY
BEFORE YOU PROCEED WITH YOUR TEST (we really mean it!!! 😊)**

Guidelines:

- *Always make use of the OOP (abstraction, polymorphism, encapsulation, and Inheritance) principles when designing your Solution*
- *Keep in mind the separation of concerns principle so your code is more organized*
- *The design and use of best practices will be evaluated.*
- *You will need to send us the link of a public available repository (github, bitbucket, etc), once you finish.*
- *The application you upload should be able to run in a standard Visual Studio 2017 installation that we will use to review it. Avoid Using external tools/software that can cause us trouble when reviewing your solution.*

Create a simple web application following the next steps:

1. Create a data access layer that consumes the following [API](#) as your data repository.
2. Create a Business Logic layer so you can retrieve the employees' information including a **calculated Annual Salary** following these rules:
 - Create your DTO(Data Transfer Object) Classes depending on the type of Contract that a given employee has(Hourly or Monthly).
 - Make use of a simple Factory Method to create the concrete classes so you can calculate the salary depending on the type of contract.
 - Employees can have to 2 types of Contracts: Hourly Salary Contract and Monthly Salary Contract.

- For Hourly Salary Employees the Annual Salary is:

$120 * \text{HourlySalary} * 12$

- For Monthly Salary Employees the Annual Salary is:

$\text{MonthtlySalary} * 12$

3. Create a WEB API Controller that can return information for a given employee or multiple employees.

4. In your MVC Application Create a View and a Controller following these guidelines:

You can use the front end technologies you are familiar with (JavaScript, JQuery, Angular etc.)

- The view must contain a textbox so the user can type the id of a particular employee.
- The view must contain a Get Employees button
- If the textbox is empty, when the Get Employees button is clicked, retrieve the information for all the employees including the calculated Annual Salaries by calling your APIs
- If the textbox has the id of a given employee, retrieve only the information for that particular employee including the calculated Annual Salary by calling your APIs
- Information must be displayed in a table and can be manually styled or using Bootstrap.

5. **OPTIONAL BONUS POINT:** Create one Unit test to test one of the methods of your Business Logic Layer.

Feel free to be creative and amaze us!