

.Net Software Developer Test

The next test must be executed according to the following instructions:

Baseline requirements

- The application must be designed using good practices of design and coding.
- It uses visual studio 2017 or higher (Visual Studio Community is a good option)
- The solution must be stored in a public repository like GitHub.
- The solution will be downloaded, compiled, and executed, therefore you must be upload all artifacts and instructions to execute the application.
- You must use Object Orientation Programming Principles as inheritance, abstraction or encapsulation.

Application Requirements

1. Create MVC application
2. Create a data access layer to consume the next APIS
<http://dummy.restapiexample.com/api/v1/employees>
<http://dummy.restapiexample.com/api/v1/employee/1>

This APIS methods return the list of employees and employee data by Id

3. Create a business logic layer to calculate the next value
 - $\text{Employee_anual_salary} = \text{employee_salary} * 12$
4. Create a WebApi Controller with methods to return employees list and employee data by id
5. Create a view to show employee information, the view must have the next parameters:
 - One textbox where user can type de employee id (id is optional)
 - One button to execute the employee search
 - When the textbox is empty the search result must return a complete employee list
 - If the textbox contains a valid employee id, the search result must return the particular employee information.
 - Show information in a table or grid, including the employee_anual_salary
 - You can use JavaScript, Angular, and JQuery as frontend technology.
 - You can styling view using Material or Bootstrap
6. Create a unit test to test at least one method of the Business Layer.