

Coding Test Puzzle

The development team need to make some changes in the existing product to support different annual leave process for different HR departments.

You need to write high quality and high quality C# code to meet the following expectations:

1. Extensible code to support different annual leave rules for clients (i.e. HR departments)
2. Maintainable code to add/change the existing rules without any impact on the other clients.
3. Customizable and configurable code for different clients.
4. Exception handling and logging to protect the code and also make support easier.
5. Following design and OOP principles; coding standards and best practices.
6. Unit testable code.

Notes

- Consider the existing code for the existing HR department that is currently using the product.
- Verify/validate all the business logics by unit tests.
- Feel free to refactor and/or improve the existing code when required.
- No over-engineering required.
- No ORMs (e.g. Ling to SQL or EF) required.
- No SQL database required.
- No front-end/UI required.
- Feel free to use any 3rd party components to meet design criteria & non-functional requirements.
- Compress your code in zip file excluding any DLLs (Use Nuget for 3rd party libraries/components)

Thank you for your time.

Good luck!