Practical Test - SSE/ SE

Tools and Technology

Language : C#

Framework : .Net Core 6 , Entity Framework 6/7

Database : MS SQL / MYSQL

Apart from above technology you can use coding best practices and OOP concepts for application implementation and also need to consider Security, Performance and deployment plan.

Application Requirements

The client X have their own payroll application. But client didn't have an solutions for analyses and visualize the employee allowances . Client asks to develop the dashboard for that. Client give the daily employee allowances report with CSV format. Here I have attached sample CSV file.

You need to develop backend API for data import. And need to design database for this requirement to facilitate dashboard view as well. The system need to notify the status for file import as well.

Deployment Plan

You need to prepare how you are going to deploy this on AWS or Azure cloud. At least you need to mention cloud services and how they connected.

Key Points to be evaluated

- Coding standards, quality and project structure
- OOP concept
- Design patterns
- Web API Standards
- Microservices standards

- Framework usage
- Unit testing
- Design patterns