



## Code Test (Dot NET)

Recruitment Ref. No.: PR/LT/CT.NT/183  
Job ID: 183

Deadline: 28/01/2024, 11:59 PM

### Instructions:

Use MySQL (Maria-DB)/MS SQL Server (2016) or above as Database.

- Use Repository Pattern for unit of work in this project.
- Use HTML5, CSS3, bootstrap 4 or above version, JavaScript, jQuery ajax,
- There should be search option.
- Use Asp .net Core web API (.NET 6 or 7 framework version) with ASP.NET Core
- (.NET 6 or 7 framework version).

### Questions:

#### 1: Registration and Login

- a) Implement a user registration API endpoint that accepts user details (username, password, email) and stores them securely.
- b) Create a login API endpoint that authenticates users using the provided username and password.

#### 2: OTP Verification (Email Only)

- a) After successful login, generate and send a one-time password (OTP) to the user's email.
- b) Create an API endpoint to verify the OTP sent to the user. After registration if user login then system will ask for OTP code to complete email verification.

#### 3: Certificate Creation (PDF & Print Only)

Admin User will Create a Certificate (It could be NOC or any other official certificate) you can choose any letter format from internet.

[There should be Department (Id, Name), Employee (Id, Name, Department, Certificate) & Certificate table (Certificate ID, Date, etc.)]

- a) Upon successful OTP verification, allow the user to create a certificate for an employee. The certificate creation form should have employee selection option & only pdf attachment field.
- b) There should be a list of certificates. And only the user who created the certificate can view, edit the certificate.
- c) And only the admin can download the certificate in pdf. Pdf file should contain all the information of employee.



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**Objective of this test:**

1. Evaluation of code structures.
2. Evaluation of Database relation and backend structure
3. Code Security Practices.

**Submission:**

Please provide a GitHub repository link containing your Dot NET code. Include clear instructions on how to set up and run the project. Ensure that the project is well-organized, follows best practices.

And lastly, send your code test answers to [career@perkyrabbit.com](mailto:career@perkyrabbit.com)

**Note:**

If you have any questions, feel free to reach out to us.

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