MS.Net Developer Candidate Evaluation Challenge

## Description

The use case used in the Evaluation Challenge is for a small Employee Attendance System Web Application which is contains the basic functionality in any project such as create, update, and delete records.

## Submission Requirement

The candidate required to create a solution from three parts:

### Database

* The used database could be MS SQL or MySQL.

### Back-end

* It is required to use **.Net Core**
* Project structure is significant and considered during the evaluation.
* The candidate can use any library could speed up the development.

### Front-end

* It is required from the candidate to use **ASP.net Razor**.
* It is required from the candidate to use **Bootstrap** for application style.
* The candidate can use any library could speed up the development.

## Use case

We need you to create a web application for a small Employee Attendance Log with the following Feature:

### Entities

* Employee
* Attendance (Check In, Checkout)

### Business

**Work starts form 7:00 am to 4:00 pm with one hour lunch break started at 12:00 pm to 1:00 pm**

* Employee will have one checking and one checkout event per day
* The employee has allowance until 8:00 am for check- in and 3:00pm for check-out
* Prevent double check in operation or double checkout operation (Optional)
* Any attendance after 8.30 AM flag a late check-in event and any check out before 3.00 pm flag early check out event
* Any flag must be justified with reason (Optional)
* The employee required to cove 40 hours per week
* Email notification (simulated you are not required to integrate with Email gateway)

### Required Screens and Actions

#### Admin

* List of employees
* Manage Employee (Add, Update and Delete)

#### Employee

* View My attendance
* Attendance Check in
* Attendance Check-out
* Write Justification for Attendance Flag

### Extra Screens and Actions

* Back-end
  + Authentication.
  + Logging.
* Front-end
  + Login page
  + Authorization

## Challenge delivery and Evaluation

* The Expected code solution will be in Visual Studio latest version
* Submit challenge Solution to the below URL with Git Repo
  + <https://forms.gle/nkGJ8Ro5dTFYWo156>
* System design
* Project documentation (any docs that help people understand your project better)
* Code
* Architecture diagram
* DB schema
* Class diagram
* Code readability, cleanliness, testability, and documentation
* UI comfortability (good UX)