1. You need to create a Patient appointment system for a hospital.
2. Create a database name HospitalDB based on the SQL script provided with this document.
3. Create an ASP.NET Core Web API application.
4. Using EF Core Reverse Engineering, scaffold the model classes and context classes based on the database.
5. You need to meet the following requirements before storing the data in the system. (using Data Annotations)
   1. FirstName, LastName, Specialization, Resident are mandatory for doctor.
   2. FirstName, LastName and PatientName should only contain character.
   3. Appointment date should be a past date
6. Write the code to perform the following operations.
   1. Add a Doctor
   2. Add a Appointment
   3. Update Appointment
   4. Display all the doctors
   5. Display all the appointments
   6. Display an individual appointment details based on the AppointmentID
   7. Use Lazy Loading to display all the appointments based on the DoctorID
   8. Log the message to a text file if exception is encountered for any of the above operations
7. Create a ASP.NET Core MVC Application. Add the logic to display all the appointment by making call to the Asp.Net Core Web API endpoint
8. Write the unit test cases for your application using NUint
9. Handle the exceptions wherever necessary

**Please note that you need to write the code for this POC using Layered Architecture. Writing code using Layered Architecture means you need to create separate application for each layer and not separate folders in a single application.**

**Evaluation Parameters:**

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| Defining Connection String in Config file and Using it | 5 Marks |
| Writing Code using Layered Architecture | 10 Marks |
| Input Validations | 10 Marks |
| Code for CRUD Operations | 10 Marks |
| Lazy Loading | 10 Marks |
| Logging Exception Details to the File | 10 Marks |
| Creating ASP.NET Core MVC application and Consuming ASP.NET Core Web API in it | 10 Marks |
| Exception Handling | 10 Marks |
| Unit Testing | 20 Marks |
| Naming Conventions and Coding Standards | 5 Marks |