Assessment assignment for job post

Full Stack Developer

Introduction

If you are receiving this assignment, it means that you have been shortlisted after your screening interview at Initium Solutions. Congratulations.

The purpose of this assignment is to assess your capabilities across the required skills for the job post you have applied for. So, please read the assessment carefully and make sure you submit your work on time.

Assessment Skills

The following skills will be evaluated through your response to this assignment

Section 1: Soft Skills	
Skill/Requirements	Score
Ability to understand business requirements	5
Ability to define a proper ER Model	5
Ability to develop a 3-tier application model	10
Ability to Deliver on time	10

Section 2: Technical Skills	
Skill/Requirements	Score
Database Design	5
ASP.Net MVC/C#	10
Application interface Front-end (HTML, CSS, Bootstrap, JavaScript, jQuery)	10

Assignment Brief

It is required to make a 3-Tier Booking System for a Hotel that has several branches. The application should be composed of the following components.

1. Booking Database (SQL Server)
2. Web service (API) to have all the logic of the system, e.g. find availability for the selected time, book, cancel, update the DB with the booked or cancelled room(s). (.Net/ C#)
3. Application interface Back-end (ASP.Net MVC/C#), this should NOT have any logic and should only communicate with the Web service (API).
4. Application interface Front-end (HTML, CSS, Bootstrap, JavaScript, jQuery)
5. A report-like page to display all the rooms in the hotel and their status, e.g., booked, available. This page should authenticate the user before displaying the report.

Required Considerations

- The system should deal with the hotel branches / locations. The booking needs to be in a specific branch / location of the hotel.
- The system should allow booking several rooms under one booking name.
- The system should give facility to booking rooms of different types, e.g., single, double, suite, and should allow booking multiple persons in a double room or a suite.
- The system should give a discounted price (95%) if the customer has booked previously in the hotel.

Assignment Delivery

- Your work for the assessment is required to be delivered within 5 days of when you have received it.
- You can send the output files by email to dev@initiumsolutions.me as "ZIP" or "RAR" file, or you can upload it to a cloud document share.

Good Luck!