PRACTICAL TEST
SENIOR ENGINEER – C#.Net
QualitApps Asai (pvt) Ltd.

Part 1

Client wants to create an application for the following scenario, please suggest what kind of strategies or methodologies you can suggest.

Clients need a web application for a dental, which has public access as well. So the public users can register to the application and can work on their tasks.

1) Each time a user tries to create an appointment, the user has to select the country and cities. Cities and countries are in the database at the moment. What is the best way to load these country and city data?
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2) Public user trying to do a payment on the web application, in somewhere between the process has broken. So there is an exception and stops the process. The problem is, some of the process data has been inserted but some of them are not. But we cannot find what has happened. So as a solution what you can suggest to improve the tracking of the application?
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3) Even tracing is happening, as an application developer. We should be aware how to stop those scenarios. Inconsistent data gives lots of problems to the application context in the long run. So in such scenarios what is the best solution to do?
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4) When finishing an appointment can create up to 5 word documents, after create it has to be able to download. But when you have lots of users in the application this may be a not good situation. What are the solutions you can give to speed up and reduce the memory allocation of this situation?
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Part 2

Please create an application for the following scenario.

Client wants to integrate user permissions for public users and company users. So clients want two user roles, which have different permissions.

1) Public users – Can add an appointment, edit appointment, delete his or her appointment and view all his appointments.
2) Company users – Can add an appointment to a user, edit appointment, and delete any appointment and list view of all the appointments.

Once users login to the application, users can list their appointments. If a user is a company user, he or she can list all the appointments. Users should be able to create an appointment by clicking on a button or navigation panel in the main screen. Once the appointment is saved, users should automatically redirect to the appointment list page. In the list page, there should be an option to edit the appointment and delete the appointment.

Note: Please use c#.net as the base framework and use any framework to complete the task .NET CORE preferred

Note: Please use any frontend framework as you familiar with

Note: Please try to use the best practices and good standards you have followed in your career rather than try to finish the test. We are not checking whether you have finished the test, but need good quality clean code.