

MCSD.NET - 70-300 Job Interview Questions And Answers



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Question - 1:

Explain Which performance standard should you use for your solution?

- A. Vehicle usage of at least 80 percent of total capacity
- B. Database size of less than one terabyte
- C. CPU utilization of less than 50 percent in the database server
- D. Screen response time of two seconds or less

Ans:

- D. Screen response time of two seconds or less

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Question - 2:

Explain Which data item or items should you add to the existing applications? (Choose all that apply)

- A. Waybill information
- B. Broker identification information
- C. Depot information
- D. Parcel dimensions
- E. Parcel routing information
- F. Information about use of space on vehicles

Ans:

- B. Broker identification information
- D. Parcel dimensions
- F. Information about use of space on vehicles

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Question - 3:

Suppose You are validating your conceptual design in terms of scalability. Which requirement will probably have the greatest impact on scalability?

- A. Scheduling additional vehicles
- B. Using the interface to bar code readers
- C. Reporting use of space in vehicles
- D. Handling additional broker shipments

Ans:

- D. Handling additional broker shipments

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Question - 4:

If you are creating the logical design for the new reservation application. Which entity or entities should you include? (Choose all options that apply)

- A. Airport
- B. Flight
- C. Customer
- D. Gate
- E. City

Ans:

- A:Airport
- B. Flight
- C. Customer

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Question - 5:

You must ensure that the new reservation application can be monitored while it is running. Which



approach should you use?

- A. TraceSwitch objects
- B. Diagnostic tools
- C. PerformanceCounter objects
- D. Windows Management Instrumentation Job Object provider

Ans:

- C. PerformanceCounter objects

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Question - 6:

Suppose You are designing the implementation of the interface to the accounting application. You need to ensure that the new application can communicate with the accounting application. What should you do?

- A. Create an XML Web service class
- B. Create TcpClient objects
- C. Create TcpListener objects
- D. Create an XML Web service proxy class by using Wsdl.exe

Ans:

- B. Create TcpClient objects

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Question - 7:

Suppose You are writing a document that identifies potential project risks. Which business constraint poses the greatest potential risk?

- A. The solution must be hosted by Fabrikam, Inc
- B. Testing and deployment of the customer Web site must be complete in six months
- C. The shipping partner will deploy the XML Web service in four months
- D. All customers will try to place orders at the end of the month

Ans:

- D. All customers will try to place orders at the end of the month

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Question - 8:

Suppose You need to select a strategy that will provide detailed usage information for the new reservation application. Information must be provided with a minimum development effort. What should you do?

- A. Use Microsoft .NET performance counters in the application
- B. Create a Microsoft Management Console(MMC) snap-in for the application
- C. Add Windows Management instrumentation to the application
- D. Use the application's configuration file to enable and disable logging

Ans:

- A. Use Microsoft .NET performance counters in the application

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Question - 9:

Explain Your functional specification includes the following statement: User identity and a timestamp must be captured when a driver authenticates to the IVR application or the driver Web application. In your technical specification, you need to specify the target where logged messages should be written. Which target should you specify?

- A. The sysmessages table in the Microsoft SQL Server master database
- B. The Security event log
- C. A table in the applications Microsoft SQL Server database
- D. A custom event log

Ans:

- C. A table in the application's Microsoft SQL Server database

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Question - 10:

Suppose You need to implement online interactive user assistance for the new reservation application. What should you do?

- A. Create a manual that can be downloaded from the Web site
- B. Create a compiled help module and use context-sensitive help for all screen elements
- C. Implement ToolTips to provide information about all screen elements
- D. Use the ALT attribute to provide a short textual description for all images and audio files.

Ans:

- C. Implement ToolTips to provide information about all screen elements

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Question - 11:



Explain The Web application used by Business Planners generates many types of reports. One type displays billing information over specified timeframes. The other selects a lawyer and a timeframe and the report displays the average number of minutes billed by that lawyer per day and the average number of minutes billed to each client per day over that timeframe. You must ensure that this report is generated with a minimum network traffic. What should you do?

- A. Use Microsoft SQL Server indexes to optimize the data calculations
- B. Implement the calculations in a business layer class
- C. Implement the calculations in a data layer class
- D. Use Microsoft SQL Server stored procedures for the data calculations

Ans:

- D. Use Microsoft SQL Server stored procedures for the data calculations

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Question - 12:

Suppose You are analyzing the feasibility of your solution. You need additional information to decide whether the solution is technically possible. Which additional information do you need?

- A. A copy of the existing timesheet application
- B. A prototype of the Web application that will be used by Team Leads and Business Planners
- C. A list of the different models of Windows CE devices that need to be supported
- D. API information and requirements related to integration with the billing application

Ans:

- D. API information and requirements related to integration with the billing application

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Question - 13:

Suppose You are validating your physical design. You need to ensure that the design maps to the categorization requirements for customer pricing. Which member should you include in the design?

- A. A GetPrice method of a Product class with no parameters
- B. A Price property of a Product class
- C. A Price property of a Customer class
- D. A GetPrice method of a Product class with a single Customer Object parameter

Ans:

- D. A GetPrice method of a Product class with a single Customer Object parameter

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Question - 14:

Suppose A database architect on your team prepares a logical data model. The model includes entries that correspond to clients, projects and timesheet entries. You are reviewing the model. Which entity relationship or relationships should be included?(Choose all that apply)

- A. a Project entity is the parent of a TimesheetEntry entity
- B. a Client entity is the child of a TimesheetEntry entity
- C. a many-to-many relationship exists between a Client entity and a Project entity
- D. a many-to-many relationship exists between a Project entity and a Timesheet Entry entity
- E. a Client entity is the parent of a Project entity
- F. a Client entity is the parent of a TimesheetEntry entity

Ans:

- A. a Project entity is the parent of a TimesheetEntry entity
- E. a Client entity is the parent of a Project entity

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Question - 15:

Suppose You need to create a physical design that meets the monitoring requirements of Fabrikam, INC. What should you do?

- A. Create and use a new event log to record each customer logon event
- B. Use the built-in ASP.NET performance counters to monitor application load
- C. Use the Trace class to record each customer logon event
- D. Create and use new NumberOfItems performance counters to monitor active customer sessions

Ans:

- D. Create and use new NumberOfItems performance counters to monitor active customer sessions

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Question - 16:

Suppose Your team builds a daily release of the timesheet application for testing by the quality assurance (QA) team. You find that the volume of bugs is threatening your project schedule. The following example is a typical bug:

One method should return a dataset that is based on a date range given as input parameters.

However, when the method queries the database, it erroneously interchanges the beginning date and the end date. An empty dataset is always returned.

You need to minimize these kinds of bugs using a minimum of development effort and QA effort. What should you do?



- A. Require more frequent builds
- B. Require the QA team to perform more integration testing
- C. Require engineers to perform complete integration testing before submitting code
- D. Require engineers to perform adequate unit tests before submitting code

Ans:

- D. Require engineers to perform adequate unit tests before submitting code

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Question - 17:

Suppose You need to recommend standard development processes for your solution. Your recommendations must assist the development team in learning to use the Microsoft .NET Framework as quickly as possible. Which process or processes should you recommend?(Choose all that apply)

- A. Create an automated build process
- B. Install error-tracking software
- C. Ensure that all assemblies pass unit testing
- D. Permit individual developers to use any Microsoft .NET language
- E. Hold regular code reviews

Ans:

- C. Ensure that all assemblies pass unit testing
- E. Hold regular code reviews

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Question - 18:

Suppose You are creating the physical design for the customer category data model. For reporting purposes, you want to optimize access to customer category data. You define a Customer table and a Category table. What should you do next?

- A. Define three foreign key columns in the Category table, such that each column references a different parent row in the Customer table. Define indexes on the foreign key columns.
- B. Define three foreign key columns in the Customer table, such that each column references a different parent row in the Category table. Define indexes on the foreign key columns.
- C. Define a foreign key column in the Category table that references the parent row in the Customer table. Define an index on the foreign key column.
- D. Define a foreign key column in the Customer table that references the parent row in the Category table. Define an index on the foreign key column.

Ans:

- D. Define a foreign key column in the Customer table that references the parent row in the Category table. Define an index on the foreign key column.

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Question - 19:

Suppose You are validating the physical design of a data layer class that will return a set of time entries from the timesheet database. This class will be used by the Web application for Team Leads and Business Planners and, indirectly, by the new timesheet application.

The class must use connection pooling, and it must be as secure and as flexible as possible. You need to specify a Microsoft SQL Server authentication strategy that meets these requirements. Which strategy should you use?

- A. The data class uses SQL Server authentication with an application specific SQL Server account. The account name and password are embedded in a connection string
- B. The data class uses Windows authentication when connecting to the database and impersonates a specific account created for operations on the database
- C. The data class uses Windows authentication when connecting to the database and impersonates the application user
- D. The data class uses SQL Server authentication with the SQL Server sa account

Ans:

- B. The data class uses Windows authentication when connecting to the database and impersonates a specific account created for operations on the database

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Question - 20:

Before you release the solution, you need to develop a process to validate and enforce an appropriate level of quality. Which three statistics should you use?

(Each correct answer presents part of the solution)

- A. Number of defects per component
- B. Number of defects per thousand lines of source code
- C. Number of defects by developer
- D. Percentage of successful builds
- E. Percentage of requirements tested
- F. Number of defects detected to date
- G. Number of defects corrected to date.

Ans:

- E. Percentage of requirements tested
- F. Number of defects detected to date



G. Number of defects corrected to date.

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Question - 21:

Explain Which new module or modules should you develop for Trey Research? (Choose all that apply.)

- A. An application to export laboratory results
- B. A data store
- C. A Web application for trucking supervisors
- D. An automated report generator
- E. An application to import laboratory reports
- F. An OCR interface
- G. An IVR application

Ans:

- E. An application to import laboratory reports
- F. An OCR interface

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Question - 22:

Suppose You are designing a strategy to migrate data from the existing timesheet application to the new application. Which tool or technology should you use?

- A. XML Schema Definition tool (xsd.exe)
- B. COM interoperability
- C. Microsoft SQL Server Data Transformation Services (DTS)
- D. Microsoft SQL Server replication

Ans:

- C. Microsoft SQL Server Data Transformation Services (DTS)

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Question - 23:

If you are writing the functional specification for your solution. You must include the customer pricing requirements. Which requirement or requirements should you include? (Choose all that apply)

- A. Pricing data must be encrypted
- B. Each user must be uniquely identified
- C. Content must be personalized by user
- D. Order data must be read from the accounting application

Ans:

- B. Each user must be uniquely identified
- C. Content must be personalized by user

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Question - 24:

You are validating the physical design for your solution. Which element or elements should be included in the design?(Choose all that apply)

- A. algorithms for scheduling vehicles
- B. scalability to meet increased usage
- C. authentication of transportation brokers
- D. online registration facility for transportation brokers
- E. interface to the bar code readers

Ans:

- B. scalability to meet increased usage
- C. authentication of transportation brokers
- D. online registration facility for

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Question - 25:

Suppose You are establishing a policy to measure the effectiveness of your deployment process.

You decide to track one or more phases of development to identify defects. Which phase or phases should you track?(Choose all that apply)

- A. Design and analysis
- B. Development
- C. Stabilization
- D. Requirements

Ans:

- C. Stabilization

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Question - 26:

Suppose You are writing the technical specification for your solution. Your new timesheet application must be able to access timesheet entry data. You need to specify the technology that will be used for



accessing this data. Your solution must require the minimum development effort. Which technology should you use?

- A. a SqlConnection class
- B. a .NET Remoting object that uses TCP channel and binary formatting
- C. an XML Web service proxy class
- D. an interop assembly

Ans:

- C. an XML Web service proxy class

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Question - 27:

Suppose You are writing the operational requirements document for your solution. Which should you include?

- A. The application must encrypt all time entry data on client computers and in the database, and data must be encrypted when transmitted over the internet
- B. The IT staff will be responsible for fixing bugs in the code
- C. The IT staff must be alerted to application problems
- D. The application can have no single point of failure

Ans:

- C. The IT staff must be alerted to application problems

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Question - 28:

Suppose You are listing the operational requirements for the new reservation application. Which requirement should you include?

- A. Extensibility
- B. Localization
- C. Maintainability
- D. Availability
- E. Deployability

Ans:

- D. Availability

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Question - 29:

Suppose You need to decide whether your conceptual design represents a complete solution. Which four design artifacts are relevant to your decision? (Each correct answer presents part of the solution. Choose four)

- A. Unit test for authenticating brokers
- B. Component prototypes for tracking shipments
- C. Functional requirements for tracking shipments
- D. Unit test cases for tracking shipments
- E. Use cases for authenticating brokers
- F. Functional requirements authenticating brokers
- G. Component prototypes for authenticating brokers
- H. Use cases for tracking shipments

Ans:

- C. Functional requirements for tracking shipments
- E. Use cases for authenticating brokers
- F. Functional requirements authenticating brokers
- H. Use cases for tracking shipment

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Question - 30:

Explain When the new solution is in place, parcel information and parcel history information must be stored. You need to estimate the amount of data that will be generated by the new solution during its first year of use. What is the approximate amount?

- A. 824MB
- B. 5GB
- C. 8GB
- D. 50GB

Ans:

- C. 8GB

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Question - 31:

Suppose You are writing a conceptual diagram of the modules that must be developed for your solution. Which module or modules should be included?(Choose all that apply)

- A. a Web application for Team Leads and Business Planners
- B. a timesheet entry database
- C. a billing database



- D. a notification engine that sends timesheet entry reminders
- E. a timesheet entry application
- F. a Windows CE application
- G. a utility that uploads information to the billing application

Ans:

- A. a Web application for Team Leads and Business Planners
- B. a timesheet entry database
- E. a timesheet entry application
- F. a Windows CE application
- G. a utility that uploads information to the billing application

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Question - 32:

Suppose Web application used by Team Leads and Business Planners requires an authentication mechanism. Which pair of authentication technologies should you recommend?

- A. IIS Anonymous authentication with ASP.NET Passport authentication
- B. IIS Anonymous authentication with ASP.NET Forms authentication
- C. IIS Basic authentication with SSL and ASP.NET Windows authentication
- D. IIS Integrated Windows authentication with ASP.NET Windows authentication
- E. IIS Basic authentication with SSL and ASP.NET Forms authentication

Ans:

- C. IIS Basic authentication with SSL and ASP.NET Windows authentication

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Question - 33:

Explain Which business constraint poses the greatest potential risk to completing your project for Blue Yonder Airlines?

- A. The current IT staff must support the solution in the future
- B. All testing scenarios and all necessary rework must be completed during the one-month testing period.
- C. The scheduling vendor will begin providing access by XML Web service in three months
- D. The application must be completed within a five-month development period before it is tested

Ans:

- C. The scheduling vendor will begin providing access by XML Web service in three months

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Question - 34:

Suppose You are writing the primary scenario of a use case named Customer retrieves a saved itinerary. Which action or actions should be included?(Choose all that apply)

- A. Application informs customers that no itineraries exist
- B. Application informs customers that a saved flight is no longer available
- C. Customer asks for saved itineraries
- D. Application offers alternate flights
- E. Application queries the database for saved itineraries
- F. Application displays retrieved itineraries

Ans:

- C. Customer asks for saved itineraries
- E. Application queries the database for saved itineraries
- F. Application displays retrieved itineraries

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Question - 35:

Suppose You are preparing the functional specification for the new reservation application. Which two functionalities should you specify? (Each correct answer presents part of the solution. Choose two)

- A. Localization
- B. Monitoring of application performance
- C. Secure storage of customer profile information
- D. Availability of application for mobile phones and personal digital assistants
- E. Integration with Active Directory

Ans:

- B: onitoring of application performance
- C: Secure storage of customer profile information

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Question - 36:

Suppose You are writing the technical specification for your solution. You need to select a technology for the new timesheet application. Which technology should you use?

- A. an XML Web service
- B. a Web application
- C. a console application



D. a Windows Forms application

Ans:

B. a Web application

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Question - 37:

Explain The invoice creation process must be dynamically monitored to track the following information:

Average number of seconds to create an invoice

Number of invoices created per second

Total number of successfully created invoices

Total number of failed attempts to create an invoice

Monitoring should occur with a minimum of development effort. What should you do?

A. Write statistics to the database and use SQL Query Analyzer to dynamically monitor the statistics

B. Create a removable Microsoft .NET class to contain statistics. Configure the class as singleton class. Write a utility that retrieves statistical information from this class

C. Write statistics to the application event log

D. Use custom performance counters

Ans:

D. Use custom performance counter

[View All Answers](#)

Question - 38:

Suppose You need to enable brokers to track their own shipment. To meet this requirement, you need to consider various specifications. Which four specifications should you consider? (Each correct answer presents part of the solution)

A. Provide a Web-accessible form to authenticate brokers against a table of registered users

B. Provide a Web-accessible form to enable brokers to request vehicle routes for their shipments

C. Provide a Web-accessible form to query the database for broker shipments

D. Provide a Web-accessible form to generate waybill numbers

E. Identify a parcel in the database as part of a broker shipment

F. Relate a parcel to a specific broker

G. Track the weight of a parcel in the database

Ans:

A. Provide a Web-accessible form to authenticate brokers against a table of registered users

C. Provide a Web-accessible form to query the database for broker shipments

E. Identify a parcel in the database as part of a broker shipment

F. Relate a parcel to a specific broker

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Question - 39:

Suppose You are creating the logical design for a use case named Customer updates customer profiles?.

Which object or objects should you include in the design? (Choose all that apply)

A. Data access object

B. Customer object

C. Flight object

D. Logging object

E. Airline object

Ans:

A. Data access object

B. Customer object

D. Logging object

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Question - 40:

Suppose You are writing a list of integration requirements for your solution. Which requirement or requirements should you include? (Choose all that apply)

A. Order data must be read from the accounting application

B. Shipment tracking must be read from an XML Web service

C. Customers must be redirected to another Web site to track shipments

D. Customers must be able to place orders by using an XML Web service

E. Order data must be written to the accounting application

F. Order data must be e-mailed to the salespeople

Answer: A, B, E

Ans:

A. Order data must be read from the accounting application

B. Shipment tracking must be read from an XML Web service

E. Order data must be written to the accounting application

F. Order dat

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Question - 41:

Explain Which new business process or processes should be supported by the new solution?

(Choose all that apply)

- A. Brokers can order transportation services
- B. Vehicle scheduling capability is provided
- C. Bar code readers are supported
- D. Use of space on vehicles can be tracked
- E. Brokers can track shipments
- F. Customers can track parcels

Answer: A, D, E

Ans:

- A. Brokers can order transportation services
- D. Use of space on vehicles can be tracked
- E. Brokers can track shipments

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Question - 42:

Suppose You are completing the technical specification for the new reservation application.

Which technique should you recommend for state management?

- A. ASP.NET ViewState
- B. Server-side database
- C. Client-side cookies
- D. Application cache

Ans:

B: Server-side database

[View All Answers](#)

Question - 43:

Suppose You need to ensure that transportation brokers are authenticated when they access the broker

Web site. Which action or actions should you take? (Choose all that apply)

- A. Create a distribution list of authenticated users
- B. Provide a facility for online registration
- C. Provide a facility to view passwords
- D. Provide secure storage of user names and passwords
- E. Secure the exchange of user names and passwords between the client computer and the server
- F. Enable e-mail access for transportation brokers

Answer: B, D, E

Ans:

- B. Provide a facility for online registration
- D. Provide secure storage of user names and passwords
- E. Secure the exchange of user names and passwords between the client computer and the server

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