

70-300 MCSD.NET

Microsoft Analyzing Requirements and Defining Microsoft .NET Solution Architectures

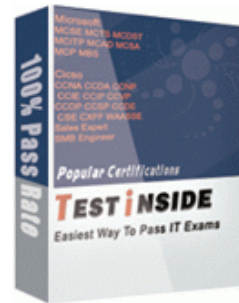
Practice Exam: 70-300 Exams

Exam Number/Code: 70-300

Exam Name: Analyzing Requirements and Defining Microsoft .NET Solution Architectures

Questions and Answers: 131 Q&As

([MCSD.NET](#))



Exam : [70-300](#)

"Analyzing Requirements and Defining Microsoft .NET Solution Architectures", also known as 70-300 exam, is a Microsoft certification. With the complete collection of questions and answers, TestInside has assembled to take you through 131 Q&As to your 70-300 Exam preparation. In the 70-300 exam resources, you will cover every field and category in Microsoft Certification helping to ready you for your successful Microsoft Certification.

Quality and Value for the 70-300 Exam TestInside Practice Exams for Microsoft **MCSD.NET** Certification 70-300 are written to the highest standards of technical accuracy, using only certified subject matter experts and published authors for development.

TestInside provide the professional Q&A.

1. We offer free update service for three month.

After you purchase our product, we will offer free update in time for three month.

2. High quality and Value for the 70-300 Exam.

70-300 simulation test questions, including the examination question and the answer, complete by our senior IT lecturers and the MCSD.NET product experts, included the current newest 70-300 examination questions.

3. 100% Guarantee to Pass Your MCSD.NET exam and get your MCSD.NET Certification.

If you do not pass the Microsoft Certification 70-300 exam (Analyzing Requirements and Defining Microsoft .NET Solution Architectures) on your first attempt using our TestInside testing engine and pdf file, we will give you a FULL REFUND of your purchasing fee.

use TestInside 70-300 Q&A ensure you pass the exam at your first try.

TestInside professional provide MCSD.NET 70-300 the newest Q&A, completely covers 70-300 test original topic. With our complete MCSD.NET resources, you will minimize your MCSD.NET cost and be ready to pass your 70-300 tests on Your First Try, 100% Money Back Guarantee included!

[Microsoft 70-300](#) Test belongs to one of the MCSD.NET certified test, if needs to obtain the MCSD.NET certificate, you also need to participate in other related test, the details you may visit the [MCSD.NET](#) certified topic, in there, you will see all related MCSD.NET certified subject of examination.

TestInside Testing Engine Features

Comprehensive questions and answers about 70-300 exam

70-300 exam questions accompanied by exhibits

Verified Answers Researched by Industry Experts and almost 100% correct

70-300 exam questions updated on regular basis

Same type as the certification exams, 70-300 exam preparation is in multiple-choice questions (MCQs).

Tested by multiple times before publishing

Try free 70-300 exam demo before you decide to buy it in Test-Inside.com.

Note: This pdf demo do not include the question's picture.

Exam : Microsoft 70-300

Title : Analyzing Requirements and Defining Microsoft .NET Solution Architectures

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

B. Write statistics to the Application event log.

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

D. Use custom performance counters.

Answer: D

2. You are reviewing 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 utility that uploads information to the billing application

B. a timesheet entry application

C. a Windows CE application

D. a billing database

E. a Web application for Team Leads and Business Planners

F. a timesheet entry database

G. a notification engine that sends timesheet entry reminders

Answer: ABCEF

3. You are writing the functional specification for your solution. You define two roles, one for Team Leads and the other for Business Planners.

Each role performs various tasks. You need to identify the tasks that are performed by each role. Move the appropriate tasks to the corresponding role. (Use only tasks that apply. You might need to reuse tasks).

Answer:

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

A. The law firm's IT staff will be responsible for fixing bugs in the code.

B. 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.

C. The application can have no single point of failure.

D. The law firm's IT staff must be alerted to application problems.

Answer: D

5. You need to create a logical diagram of the database used by the order fulfillment application. Connect the

appropriate entities and relationships. (Use only entities and relationships that apply.)

6. In your first project code review, you detect several violations of your policies. The following examples are typical violations

Data controls are used in presentation layer components.

Windows UI elements are added to Web UI projects.

Shareware user controls are used.

You must establish and enforce standards to prevent these kinds of violations. You want to enforce the standards with a minimum of administrative effort. What should you do?

A. Base projects on an appropriate Microsoft Visual Studio .NET Enterprise Template.

B. Write a utility that uses Microsoft .NET reflection to examine compiled code for inappropriate types

C. Conduct more frequent code reviews.

D. Use Active Template Library projects.

Answer: A

7. 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. Microsoft SQL Server replication

B. XML Schema Definition tool (Xsd.exe)

C. COM interoperability

D. Microsoft SQL Server Data Transformation Services (DTS)

Answer: D

8. Background

Alpine Ski House is a retail company that sells winter sports equipment. The company sells its products through three sales channels: a mail order department, a Web site, and a chain of five retail stores.

The company handles approximately 20,000 orders each year. Order volume is projected to increase by 20 percent each year for the next five years.

The company operates a central warehouse, which fulfills orders received through all three sales channels.

Inventory is increasingly difficult to manage. The company wants a better way to forecast inventory levels. It also wants to improve its order fulfillment process. You are a developer employed by Alpine Ski House. You will lead the development of a new Microsoft .NET solution that meets your company's requirements.

Existing IT Environment

Logical Design

The existing order fulfillment process uses a Web-based application.

The order fulfillment application is used by warehouse and retail staff. The application includes a database management system. Users display and edit inventory data by using Web pages to access the database. Reporting modules are used to print orders, identify back orders, and summarize inventory levels. These modules are stand-alone programs that can directly access the database.

Physical Implementation

Alpine Ski House uses both a corporate intranet and an external network, which is reserved for Internet users.

Communications between these two networks are restricted to HTTP and HTTPS.

The order fulfillment application runs on a Microsoft Windows 2000 Server computer located on the corporate intranet.

The order fulfillment application consists of ASP pages, HTML files, database tables, and Microsoft SQL Server stored procedures. The intranet also includes a Web server running Internet Information Services 5.0 and a database server running SQL Server 7.0. ADO is used to access the database from the ASP pages.

The order fulfillment application interfaces with an e-commerce application to exchange inventory data.

The e-commerce application runs on a server located on the external network.

Every night, the order fulfillment application is synchronized with the e-commerce application by using a component written in Microsoft Visual Basic 6.0.

This component runs on the same server as the order fulfillment application.

Existing Applications Alpine Ski House uses an e-commerce application that was developed by a local software

company.

The user interface for this application consists of ASP pages written in Visual Basic Scripting Edition (VBScript).

Alpine Ski House also uses a SQL Server database to store product and customer information.

Alpine Ski House has a good relationship with the local software company.

Historically, the software company has been able to modify its applications on request, on time, and within budget.

The database used by the order fulfillment application has the following characteristics:

The database contains four tables: Order, Order Item, InventoryItem, and Vendor.

The Order table contains five fields: Order Identifier, Customer Name, Shipping Address, Billing Address, and Order Amount.

An order can consist of one or more items. The Order Item table is linked to the Order table by the Order Identifier field.

The Inventory Item table contains fields that refer to items in inventory.

This table is linked to a master vendor record that identifies the vendor for each item

Interviews

IT Department

IT Manager

When we implemented the e-commerce application on our Web site, we did not consider how to integrate this application with our other applications.

Every night, inventory levels are synchronized between the e-commerce application and the order fulfillment application.

Our operations staff needs the ability to monitor the performance and accuracy of the communications involved in synchronization.

We recently adopted the Microsoft .NET Framework as our new development platform. However, none of our current projects use this platform.

All new implementations must be performed by using ASP.NET, Visual Basic .NET, or Visual C# .NET. We will not change our database management system or the platform on which it runs.

Our chief financial officer wants to enable our vendors to monitor the inventory levels of their products.

To work through our firewall and to comply with our standards, the vendors should use the interface that you will develop for the e-commerce application.

I will not allow any additional ports to be opened in our firewall to support vendor access. Currently, we do not have any formal process for source control.

As part of the new project, we need to formulate an appropriate process and use a software product that will archive distinct versions of our source code. I sponsor a quality assurance team to ensure that all components are staged and regression-tested before they are installed in our production environment.

Business Stakeholders Customer Operations Manager Customers are dissatisfied with the way in which we manage inventory.

Currently, our online customers can place orders for items that are out of stock.

In such cases, we need to telephone the customers and tell them that their orders will be delayed until we receive more stock.

Customers often cancel their orders when they learn about delays.

The order fulfillment application and the e-commerce application should have the same inventory data at all times.

When customers are ready to place orders, they must be able to see if an item is in stock. We can still accept orders for items that are out of stock, but we can fulfill such orders only when the items are restocked.

Our customers are very satisfied with the appearance and functionality of our e-commerce application. Users

Warehouse Manager We identify back-ordered merchandise manually, and the process is prone to delays. To meet our growth goals, my staff will need an automated process for identifying back-ordered merchandise. I think that our order fulfillment application should be enhanced.

When we receive a shipment of merchandise from our vendors, the application should automatically print a picking list for back orders that can be fulfilled from the new shipment.

Finance Department Chief Financial Officer Our budget is limited. We cannot afford to build a new order fulfillment application just to support our Web site, and we cannot replace our existing software.

This new solution needs to be developed at the lowest possible cost.

All of our applications must use the same inventory data.

In addition, we need to improve inventory management.

I want to give our external vendors the ability to monitor inventory levels for their own products.

They must be able to ship us new products when the inventory level falls below a predefined threshold.

Business Process Fulfilling Orders Currently, the warehouse staff fulfills orders by completing the following actions:

1. Print a picking list to identify items in an order.
2. Pick the items from the warehouse.
3. Update the order form by adding the number of items that will be shipped together.
4. Print a packing list of the items that will be shipped together.
5. Pack and ship the items.
6. Mark the order form as complete when all items are shipped. Sometimes an order cannot be completely filled by existing inventory.

In that case, the warehouse staff ships the available items and places the remaining items on back order.

Completing Back Orders Currently, the warehouse staff completes back orders by completing the following actions:

1. Print a daily report that lists back orders.
2. Review the report and inspect current inventory levels.
3. Manually identify orders that can be partially or completely fulfilled from current inventory.
4. Invoke the order fulfillment process.
5. Mark an order as back-ordered when some items are not yet shipped.
6. Mark an order as complete when all items are shipped.

Receiving Goods Inventory levels are updated when merchandise from our vendors is placed in the warehouse.

Updates involve adding the number of items received to the number of items currently in stock.

Maintaining

Customer

Information

All customer communications are channeled through the customer service department.

Customers can communicate by telephoning us or by using forms that are available on our Web site.

Customers use a Web form to register their shipping address, billing address, and credit card information.

They can edit this information either by using another Web form or by telephoning the customer service department.

16. You need to assess the risks associated with your proposed solution. Which business process or processes will be most strongly affected by your solution? (Choose all that apply.)

- A. Customers update their shipping address.
- B. Customers enter their shipping address and billing address.
- C. The customer service department enters new customer information
- D. The warehouse staff fulfills orders.
- E. Customers enter orders by using the e-commerce application.

Answer: DE

9. A member of your team creates a diagram to illustrate the order fulfillment activities that are currently performed by the warehouse staff, as shown in the exhibit. (Click the Exhibit button.) Which activity should you add to this diagram?

- A. Place an item on back order if the item is out of stock.
- B. Update the shipping address.
- C. Update inventory levels.
- D. Print an inventory report.
- E. Notify the warehouse manager when the order is complete

Answer: A

10. Your solution requires an XML Web service that will enable vendors to retrieve inventory quantities for their own products. You need to create a list of the processing actions that must be executed by this XML Web service. Move the appropriate actions from the Processing List pane to the Processing Actions pane, and arrange them in the appropriate order. (Use only actions that apply.)

20. You need to create a logical diagram of the database used by the order fulfillment application. Connect the appropriate entities and relationships. (Use

only entities and relationships that apply.)

11. A database architect on your team prepares a logical data model. The model includes entities 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 Client entity is the parent of a TimesheetEntry entity.
- B. A Project entity is the parent 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 TimesheetEntry entity
- E. A Client entity is the parent of a Project entity.
- F. A Client entity is the child of a TimesheetEntry entity.

Answer: BE

12. 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 this 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 by using a minimum of development effort and QA effort. What should you do?

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

Answer: B

13. 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. a Windows Forms application
- B. a console application
- C. an XML Web service
- D. a Web application

Answer: A

14. 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. API information and requirements related to integration with the billing 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. a copy of the existing timesheet application

Answer: A

15. You need to assess the risks associated with your proposed solution. Which business process or processes will be most strongly affected by your solution? (Choose all that apply.)

- A. Customers update their shipping address.
- B. Customers enter their shipping address and billing address.
- C. The customer service department enters new customer information
- D. The warehouse staff fulfills orders.
- E. Customers enter orders by using the e-commerce application.

Answer: DE

16. Which module or modules should you include in your solution concept for Fabrikam, Inc.? (Choose all that apply.)

- A. data store

- B. interface to mainframe computer
- C. feature set for ordering raw materials
- D. Web site for customers
- E. Web site for salespeople

Answer: ABDE

17. Which technology should you use for storing inventory data?

- A. a data warehouse application
- B. Microsoft SQL Server 2000
- C. Microsoft SQL Server 7.0
- D. an object-oriented database management system

Answer: C

18. 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 the SQL Server sa account.
- 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 an application-specific SQL Server account. The account name and password are embedded in a connection string.

Answer: B

19. The Web application used by Business Planners generates many types of reports. One type displays billing information over specified timeframes. The user 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 of network traffic. What should you do?

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

Answer: B

20. You are creating a high-level class diagram for your solution. You need to add one or more business entities to the diagram. Which entity or entities should you add? (Choose all that apply.)

- A. lawyer
- B. time entry
- C. project
- D. pop-up window
- E. client
- F. task time
- G. task description

Answer: ABCE

[**More 70-300 Information**](#)

Related 70-300 Exams

[70-564](#) PRO: Designing and Developing ASP.NET Applications using Microsoft .NET Framework 3.5

70-306 *Developing and Implementing Windows-based Applications with Microsoft Visual Basic .NET*

70-315 *Developing and Implementing Web Applications with Microsoft Visual C# .NET*

70-305 *Developing and Implementing Web Applications with Microsoft Visual Basic.NET*

70-316 *Developing and Implementing Windows-based Applications with Microsoft Visual C# .NET*

70-320 *XML Web Services and Server Components with C#.NET*

70-340 *Implementing Security for Applications with Microsoft Visual C# .NET*

70-330 *Implementing Security for Applications with Microsoft Visual Basic .NET*

70-310 *XML Web Services and Server Components with Visual Basic.NET*

70-300 *Analyzing Requirements and Defining Microsoft .NET Solution Architectures*

70-554CSharp *UPGRADE:MCSD MS.NET Skills to MCPD Entpse App Dvlpr Pt2*

70-553CSharp *UPGRADE:MCSD MS.NET Skills to MCPD Entpse App Dvlpr Pt1*

70-554VB *UPGRADE:MCSD MS.NET Skills to MCPD Entpse App Dvlpr Pt2*

70-553VB *UPGRADE:MCSD MS.NET Skills to MCPD Entpse App Dvlpr Pt1*

Other Microsoft Exams

MB6-291 70-447 70-232 70-639 MB2-498 70-270 70-547 70-502VB

70-652 MB4-175 70-234 70-529VB 70- MB5-629 070-447 70-229

441GB2312 MB3-462 MB6-295 MB4-219

70-

642Big5