

New Product Development Interview Questions And Answers Guide.



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New Product Development Job Interview Preparation Guide.

Question # 1

What is QMS?

Answer:-

A quality management system in accordance with ISO 9001:2000 will provide your organization with a set of processes that ensure a common sense approach to the management of your organization.

The system should ensure consistency and improvement of working practices, which in turn should provide products and services that meet customer's requirements. ISO 9000 is the most commonly used international standard that provides a framework for an effective quality management system.

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Question # 2

Explain why we call water fall model as waterfall?

Answer:-

Waterfall model is a sequential software development process, in which progress is seen as flowing steadily downwards (like waterfall) through the phases of conception, initiation, analysis, design, construction, testing and maintenance. Hence these model named as waterfall.

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Question # 3

What is deferred Bug?

Answer:-

A defect that is confirmed by the team to be a bug but the effort to correct it at this time exceeds the ROI (Return On Investment). This can often be the case when a re-design is scheduled for that area of the application or if technology barriers exist that make correction of the bug prohibitive.

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Question # 4

Which SDLC model should we select to develop a payroll system for an organisation with employee strength 1000? here every employee gets salary based on designation, experience and qualification. If possible please tell

1. functional and non functional requirements
2. schedule for project completion. draw gantt and pert chart
3. estimate cost of project
4. complete SRS development
5. test plan document development

Answer:-

The waterfall model seems an ideal choice here. No other model seems a reasonable alternative to accept as a different answer.

Strengths:

1. The company is large and bureaucratic, requiring documentation and good project visibility. Waterfall documentation satisfies this.
2. The company has a high staff turnover. So probably many employees are new and inexperienced. Waterfall works well with inexperienced staff.
3. The application type is well known to the company, so a



thorough user

requirements analysis should be possible early on.

4. An existing application is to be re-engineered. This also confirms that the

user requirements are known early. They could be extracted from the existing application.

5. The company will maintain the software, so good documentation will be essential.

6. The company has a good reputation to maintain in this area, so quality control will be essential. Waterfall emphasis of requirements-before-design and design-before-coding will emphasise quality.

Weaknesses:

Waterfall has no obvious weaknesses on this project.

1. We may end up swimming upstream, but the chances seem minimal since the requirements should be clear from the start.

2. Late arrival of code may be one, but on the other hand our client may be able to continue using the existing application until the new system arrives.

Solution 1 (b) : Functional and Non-Functional requirements Interface Requirement, This section defines the parameters that the software product must follow while interacting with the outside world.

User Interfaces :

1. Login Screen

2. Menu selection Screen

3. Employee Salary Details

4. Employee Loan Details

5. Employee Leave Details

6. Employee Tax Details

7. Generate Salary Slip

8. Employee Bank Details

Hardware Interfaces Server Configuration: Minimum 2GB Hard Disk P-III processor or equivalent Ram 512 MB Windows with Apache preloaded. Client Configuration: A terminal with Internet Explorer and Printer.

Software Interfaces Operating system "WindowsXP/2000"

Language -- JSP Database "Oracle"

Network -- LAN Communications Interfaces

Communications interfaces can be provided through email, web browser, network server communications protocols, electronic forms, and so on. For this we can use communication standards such as FTP or HTTP to provide security using encryption algorithms and synchronization mechanisms

Functional Requirements:

This section analyzes various angles of the functionality to be developed. You do not need to use each type of analysis for the entire system. Select only those analyses that best allow you to complete your understanding of the requirements.

Feature Analysis The Automated Payroll

Processing system consists of following modules. Admin :

In this module admin is provided with many services such as assigning roles, Add new employee, Update Salary Details, Update Loan Details, Update Leave Details, Update Tax

Details, Generate Salary Slip, View employee

account. Employee: In this module employee is provided with

the services such as Update personal profile, Change

Password, View earnings, View Deductions, View Salary Slip.

Nonfunctional Requirements:

Performance Requirements System can withstand even though many number of users requested the desired service. As we are keeping office level server of the automated payroll system. And access is given to the only registered users of office who requires the services of viewing, Updating etc.

It can withstand the load Safety & Reliability Requirements

By incorporating a robust and proven SQL into the system, reliable performance and integrity of data is ensured. There must be a power backup for server system.

Security Requirements

Sensitive data is protected from unwanted access by users appropriate technology and implementing strict user- access criteria. Software Quality Attributes Menu-driven programs

with user friendly interface with simply hyper links. It is

very easy to use. Backup mechanisms are considered for

maintainability of software as well as database. As it is

object oriented reusability exists. As project is based on

MVC architecture, testability exists.

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Question # 5

Explain Difference between ISO and CMM level?

**Answer:-**

The difference is that the CMM is a way to communicate capabilities, and ISO is a way to communicate the process. They are not necessarily incompatible. The Capability Maturity Model is a very specific way of classifying an organization's software development methods. In a certain way, it tells how the quality of its software designs is likely to be repeated. ISO-9000 procedures describe a (possibly) definite development process but gives no indication of the likely quality of the designs or whether multiple software efforts are likely to produce software of similar quality.

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Question # 6

What are the beta test and alpha test?

Answer:-

Beta test & Alpha tests are type of Acceptance Testing. Beta testing is performed at the client's site in the absence of the development team. Whereas alpha testing is performed at the developer's site.

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Question # 7

Give me an e.g. of Low Severity and High priority?

Answer:-

A spelling mistake in the user interface text may have low severity and high priority. For example the question given here itself, the spelling mistake existing here for 'severity' string will be understood by many users, so it has low severity, with not impacting what the user wants to ask here, but have high priority to correct the same to be more clear and clarity to the user.

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Question # 8

Why a bug can't be fixed?

Answer:-

Sometimes it is not feasible to fix a particular bug because if it is fixed it may not affect any critical functionality but fixing that same bug may cause other bugs to take effect and destroy some useful portion of the program.

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Question # 9

What is main difference between Continuous Integration and Iterative Models?

Answer:-

Continuous integration:

First core functionality implemented. Then new requirements are added to that implemented part and checking whether it is giving some meaningful functionality and then again some requirements are added. This process continues until the system is fully developed.

Advantage: Client gets small working system very early.
Iterative: Total opposite to the above.

Disadvantage : Client has to wait a long for his/her desired system

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Question # 10

How do you test the middleware? esp for an Online Banking software?

Answer:-

Test Strategy for Middleware and Firmware
We have defined middleware and firmware and understand that they are different, yet have many characteristics in common when it comes to testing. The discussion of test strategy for these types of software will include both middleware



and firmware, and can be extended to test any software which is not accessed by a user interface.

Early Testing

Early testing will multiply the testing effectiveness of any software application, regardless of technology. However, in the world of middleware and firmware early testing is most critical because finding defects at later stages carries a higher penalty of rework. This is due to the extent of integration with hardware and other software. The problem with early testing in this environment is that with so many integration dependencies, how does someone create test harnesses and stubs that allow for an accurate test? Manually, the job is possible, but can be overwhelming when there are many interfaces involved. If you are developing in a language that has tool support for structural test case design and testing, you may find that the job can be very easy. Specifically, for C++ and Java, Parasoft (www.parasoft.com) has a great toolset to design and perform structural tests, with a feature to automatically create a test harness and test stubs. Similar tools are available from International Software Automation (ISA) www.softwareautomation.com.

Developer Testing

Developer testing is essential to avoid high rework costs. To the testers, the software is a black box. Only the developers have the view and access to the code to test all conditions. In addition, not only are functional cases at stake, but also the structural tests for memory boundary violations and memory leaks.

My experience is that developers can test software if they have a good process to follow, standards to show what is expected of them in terms of testing, and a way to hold developers accountable for the quality of their work. Management must also be making the message loud and clear that testing is part of the job and that quality is a shared responsibility between developers, testers, QA, and management.

An Object-oriented View of Testing

In the object-oriented view of testing, tests are isolated at a smaller scope, yet can have high complexity due to the interfaces with other objects. The object-oriented view of testing must be able to deal with classes, methods, and attributes and to validate those at a high level of coverage.

In Shel Siegel's book, "Object-Oriented Software Testing," he describes the Hierarchical approach to O-O testing. "The hierarchical approach is at the heart of the object-oriented testing system. This test approach uses and builds upon several well-understood testing techniques, tying them together into a comprehensive testing system. The hierarchical approach leverages the fact that "everything is a system." It defines and applies testing standards for several levels of software component: objects, classes, foundation components, and systems. The hierarchical approach designates as SAFE those components that meet the testing standards for that kind of component. Once you designate a component as SAFE, you can integrate it with other SAFE components to produce the next-level component. In turn, you test this component to the level of safety associated with the component level it represents. SAFE is always a relative state. It depends entirely on the standards you choose to enforce, your application, your attitude toward risk, and the specific risks and risk management practices you adopt in your project. The hierarchical approach provides guidelines for minimum safety; you decide what is right for you."

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Question # 11

What is the difference between get and post method in load runner or is it the same as the concept in HTML form?

Answer:-

GET method is mainly used when the client requests are made to the server. This is like a query made to the server. POST method is used to submit a set of data to the server.

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Question # 12

Find the 3 digit no. whose last digit is the square root of the first digit and the second digit is the sum of the other two digits. And the number is divisible



by 2,3,6,7. what is the number?

Answer:-

Three digit number

Ans: 462

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- 2 : [Software Quality Analysis Frequently Asked Interview Questions and Answers Guide.](#)
- 3 : [Product Quality Analysis Frequently Asked Interview Questions and Answers Guide.](#)
- 4 : [Current Product Maintenance Frequently Asked Interview Questions and Answers Guide.](#)
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