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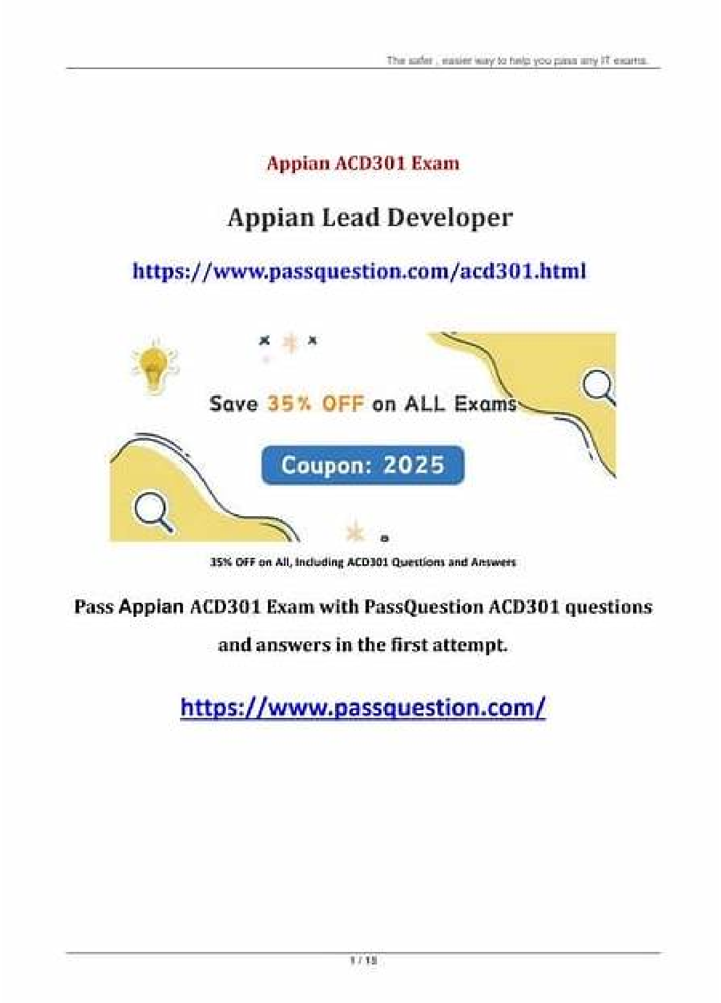

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Appian Certified Lead Developer Sample Questions (Q16-Q21):

NEW QUESTION # 16
You are reviewing the Engine Performance Logs in Production for a single application that has been live for six months. This application experiences concurrent user activity and has a fairly sustained load during business hours. The client has reported performance issues with the application during business hours.During your investigation, you notice a high Work Queue - Java Work Queue Size value in the logs. You also notice unattended process activities, including timer events and sending notification emails, are taking far longer to execute than normal.The client increased the number of CPU cores prior to the application going live.What is the next recommendation?

- A. Add more engine replicas.
- B. Add more application servers.
- C. Add execution and analytics shards
- D. Optimize slow-performing user interfaces.

Answer: A

Explanation:
As an Appian Lead Developer, analyzing Engine Performance Logs to address performance issues in a Production application requires understanding Appian's architecture and the specific metrics described. The scenario indicates a high "Work Queue - Java Work Queue Size," which reflects a backlog of tasks in the Java Work Queue (managed by Appian engines), and delays in unattended process activities (e.g., timer events, email notifications). These symptoms suggest the Appian engines are overloaded, despite the client increasing CPU cores. Let's evaluate each option:
A . Add more engine replicas:This is the correct recommendation. In Appian, engine replicas (part of the Appian Engine cluster) handle process execution, including unattended tasks like timers and notifications. A high Java Work Queue Size indicates the engines are overwhelmed by concurrent activity during business hours, causing delays. Adding more engine replicas distributes the workload, reducing queue size and improving performance for both user-driven and unattended tasks. Appian's documentation recommends scaling engine replicas to handle sustained loads, especially in Production with high concurrency. Since CPU cores were already increased (likely on application servers), the bottleneck is likely the engine capacity, not the servers.
B . Optimize slow-performing user interfaces:While optimizing user interfaces (e.g., SAIL forms, reports) can improve user experience, the scenario highlights delays in unattended activities (timers, emails), not UI performance. The Java Work Queue Size issue points to engine-level processing, not UI rendering, so this doesn't address the root cause. Appian's performance tuning guidelines prioritize engine scaling for queue-related issues, making this a secondary concern.
C . Add more application servers:Application servers handle web traffic (e.g., SAIL interfaces, API calls), not process execution or unattended tasks managed by engines. Increasing application servers would help with UI concurrency but wouldn't reduce the Java Work Queue Size or speed up timer/email processing, as these are engine responsibilities. Since the client already increased CPU cores (likely on application servers), this is redundant and unrelated to the issue.
D . Add execution and analytics shards:Execution shards (for process data) and analytics shards (for reporting) are part of Appian's data fabric for scalability, but they don't directly address engine workload or Java Work Queue Size. Shards optimize data storage and query performance, not real-time process execution. The logs indicate an engine bottleneck, not a data storage issue, so this isn't relevant. Appian's documentation confirms shards are for long-term scaling, not immediate performance fixes.
Conclusion: Adding more engine replicas (A) is the next recommendation. It directly resolves the high Java Work Queue Size and delays in unattended tasks, aligning with Appian's architecture for handling concurrent loads in Production. This requires collaboration with system administrators to configure additional replicas in the Appian cluster.
Appian Documentation: "Engine Performance Monitoring" (Java Work Queue and Scaling Replicas).
Appian Lead Developer Certification: Performance Optimization Module (Engine Scaling Strategies).
Appian Best Practices: "Managing Production Performance" (Work Queue Analysis).

NEW QUESTION # 17
You add an index on the searched field of a MySQL table with many rows (>100k). The field would benefit greatly from the index in which three scenarios?

- A. The field contains long unstructured text such as a hash.
- B. The field contains a structured JSON.
- C. The field contains many datetimes, covering a large range.
- D. The field contains big integers, above and below 0.
- E. The field contains a textual short business code.

Answer: C,D,E

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Adding an index to a searched field in a MySQL table with over 100,000 rows improves query performance by reducing the number of rows scanned during searches, joins, or filters. The benefit of an index depends on the field's data type, cardinality (uniqueness), and query patterns. MySQL indexing best practices, as aligned with Appian's Database Optimization Guidelines, highlight scenarios where indices are most effective.
Option A (The field contains a textual short business code):
This benefits greatly from an index. A short business code (e.g., a 5-10 character identifier like "CUST123") typically has high cardinality (many unique values) and is often used in WHERE clauses or joins. An index on this field speeds up exact-match queries (e.g., WHERE business_code = 'CUST123'), which are common in Appian applications for lookups or filtering.
Option C (The field contains many datetimes, covering a large range):
This is highly beneficial. Datetime fields with a wide range (e.g., transaction timestamps over years) are frequently queried with range conditions (e.g., WHERE datetime BETWEEN '2024-01-01' AND '2025-01-01') or sorting (e.g., ORDER BY datetime). An index on this field optimizes these operations, especially in large tables, aligning with Appian's recommendation to index time-based fields for performance.
Option D (The field contains big integers, above and below 0):
This benefits significantly. Big integers (e.g., IDs or quantities) with a broad range and high cardinality are ideal for indexing. Queries like WHERE id > 1000 or WHERE quantity < 0 leverage the index for efficient range scans or equality checks, a common pattern in Appian data store queries.
Option B (The field contains long unstructured text such as a hash):
This benefits less. Long unstructured text (e.g., a 128-character SHA hash) has high cardinality but is less efficient for indexing due to its size. MySQL indices on large text fields can slow down writes and consume significant storage, and full-text searches are better handled with specialized indices (e.g., FULLTEXT), not standard B-tree indices. Appian advises caution with indexing large text fields unless necessary.
Option E (The field contains a structured JSON):
This is minimally beneficial with a standard index. MySQL supports JSON fields, but a regular index on the entire JSON column is inefficient for large datasets (>100k rows) due to its variable structure. Generated columns or specialized JSON indices (e.g., using JSON_EXTRACT) are required for targeted queries (e.g., WHERE JSON_EXTRACT(json_col, '$.key') = 'value'), but this requires additional setup beyond a simple index, reducing its immediate benefit.
For a table with over 100,000 rows, indices are most effective on fields with high selectivity and frequent query usage (e.g., short codes, datetimes, integers), making A, C, and D the optimal scenarios.

NEW QUESTION # 18
You have 5 applications on your Appian platform in Production. Users are now beginning to use multiple applications across the platform, and the client wants to ensure a consistent user experience across all applications.
You notice that some applications use rich text, some use section layouts, and others use box layouts. The result is that each application has a different color and size for the header.
What would you recommend to ensure consistency across the platform?

- A. In each individual application, create a rule that can be used for section headers, and update each application to reference its respective rule.
- B. Create constants for text size and color, and update each section to reference these values.
- C. In the common application, create one rule for each application, and update each application to reference its respective rule.
- D. In the common application, create a rule that can be used across the platform for section headers, and update each application to reference this new rule.

Answer: D

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, ensuring a consistent user experience across multiple applications on the Appian platform involves

centralizing reusable components and adhering to Appian's design governance principles. The client's concern about inconsistent headers (e.g., different colors, sizes, layouts) across applications using rich text, section layouts, and box layouts requires a scalable, maintainable solution. Let's evaluate each option:

A . Create constants for text size and color, and update each section to reference these values:

Using constants (e.g., cons!TEXT_SIZE and cons!HEADER_COLOR) is a good practice for managing values, but it doesn't address layout consistency (e.g., rich text vs. section layouts vs. box layouts). Constants alone can't enforce uniform header design across applications, as they don't encapsulate layout logic (e.g., a!sectionLayout() vs. a!richTextDisplayField()). This approach would require manual updates to each application's components, increasing maintenance overhead and still risking inconsistency. Appian's documentation recommends using rules for reusable UI components, not just constants, making this insufficient.

B . In the common application, create a rule that can be used across the platform for section headers, and update each application to reference this new rule:

This is the best recommendation. Appian supports a "common application" (often called a shared or utility application) to store reusable objects like expression rules, which can define consistent header designs (e.g., rule!CommonHeader(size: "LARGE", color: "PRIMARY")). By creating a single rule for headers and referencing it across all 5 applications, you ensure uniformity in layout, color, and size (e.g., using a!sectionLayout() or a!boxLayout() consistently). Appian's design best practices emphasize centralizing UI components in a common application to reduce duplication, enforce standards, and simplify maintenance-perfect for achieving a consistent user experience.

C . In the common application, create one rule for each application, and update each application to reference its respective rule:

This approach creates separate header rules for each application (e.g., rule!App1Header, rule!App2Header), which contradicts the goal of consistency. While housed in the common application, it introduces variability (e.g., different colors or sizes per rule), defeating the purpose. Appian's governance guidelines advocate for a single, shared rule to maintain uniformity, making this less efficient and unnecessary.

D . In each individual application, create a rule that can be used for section headers, and update each application to reference its respective rule:

Creating separate rules in each application (e.g., rule!App1Header in App 1, rule!App2Header in App 2) leads to duplication and inconsistency, as each rule could differ in design. This approach increases maintenance effort and risks diverging styles, violating the client's requirement for a "consistent user experience." Appian's best practices discourage duplicating UI logic, favoring centralized rules in a common application instead.

Conclusion: Creating a rule in the common application for section headers and referencing it across the platform (B) ensures consistency in header design (color, size, layout) while minimizing duplication and maintenance. This leverages Appian's application architecture for shared objects, aligning with Lead Developer standards for UI governance.

Appian Documentation: "Designing for Consistency Across Applications" (Common Application Best Practices).

Appian Lead Developer Certification: UI Design Module (Reusable Components and Rules).

Appian Best Practices: "Maintaining User Experience Consistency" (Centralized UI Rules).

The best way to ensure consistency across the platform is to create a rule that can be used across the platform for section headers. This rule can be created in the common application, and then each application can be updated to reference this rule. This will ensure that all of the applications use the same color and size for the header, which will provide a consistent user experience.

The other options are not as effective. Option A, creating constants for text size and color, and updating each section to reference these values, would require updating each section in each application. This would be a lot of work, and it would be easy to make mistakes. Option C, creating one rule for each application, would also require updating each application. This would be less work than option A, but it would still be a lot of work, and it would be easy to make mistakes. Option D, creating a rule in each individual application, would not ensure consistency across the platform. Each application would have its own rule, and the rules could be different. This would not provide a consistent user experience.

Best Practices:

When designing a platform, it is important to consider the user experience. A consistent user experience will make it easier for users to learn and use the platform.

When creating rules, it is important to use them consistently across the platform. This will ensure that the platform has a consistent look and feel.

When updating the platform, it is important to test the changes to ensure that they do not break the user experience.

NEW QUESTION # 19

You are reviewing the Engine Performance Logs in Production for a single application that has been live for six months. This application experiences concurrent user activity and has a fairly sustained load during business hours. The client has reported performance issues with the application during business hours.During your investigation, you notice a high Work Queue - Java Work Queue Size value in the logs. You also notice unattended process activities, including timer events and sending notification emails, are taking far longer to execute than normal.The client increased the number of CPU cores prior to the application going live.What is the next recommendation?

- A. Add more engine replicas.

- B. Add more application servers.
- C. Add execution and analytics shards
- D. Optimize slow-performing user interfaces.

Answer: A

NEW QUESTION # 20
You are selling up a new cloud environment. The customer already has a system of record for Its employees and doesn't want to re-create them in Appian. so you are going to Implement LDAP authentication.
What are the next steps to configure LDAP authentication?
To answer, move the appropriate steps from the Option list to the Answer List area, and arrange them in the correct order. You may or may not use all the steps.

Answer:

Explanation:

NEW QUESTION # 21
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