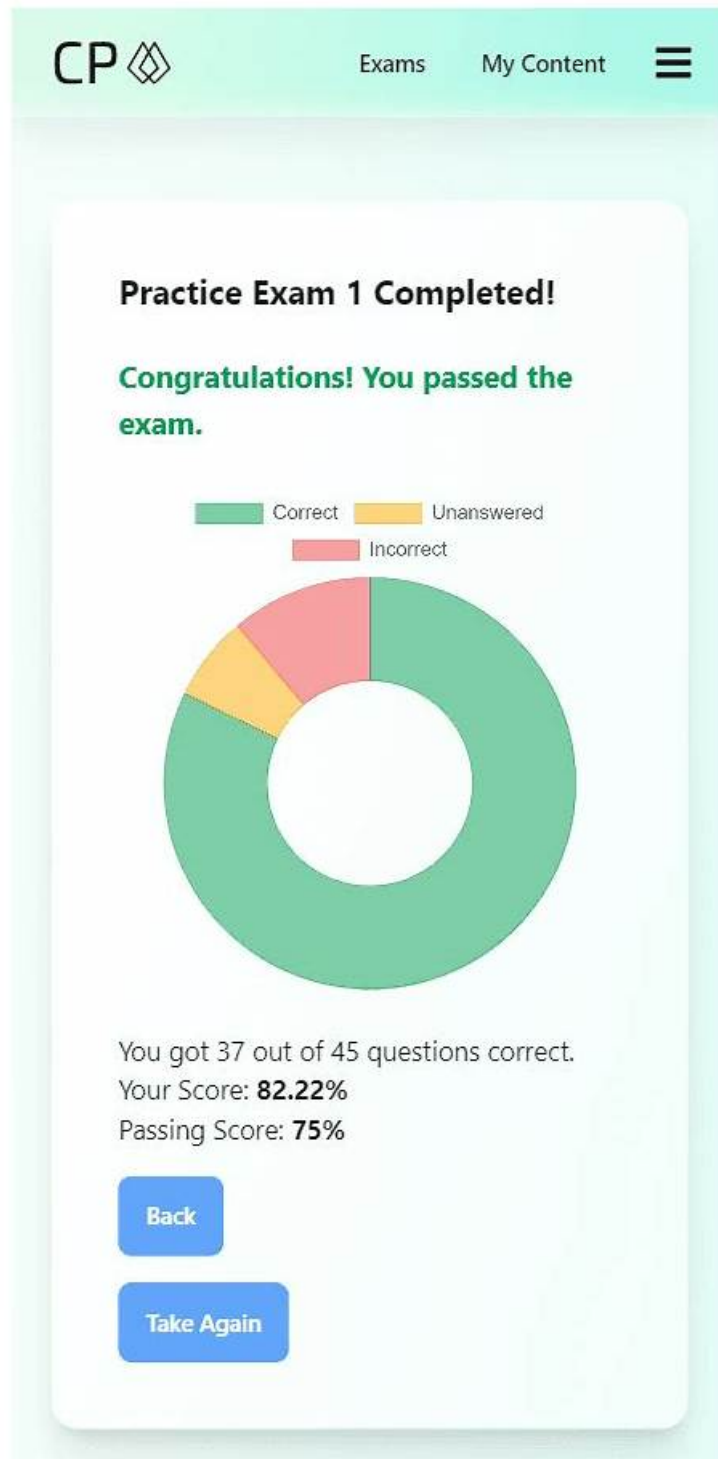


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### Appian Certified Lead Developer Sample Questions (Q26-Q31):

#### NEW QUESTION # 26

You are taking your package from the source environment and importing it into the target environment.

Review the errors encountered during inspection:

What is the first action you should take to Investigate the issue?

- A. Check whether the object (UUID ending in 18028931) is included in this package
- B. Check whether the object (UUID ending in 18028821) is included in this package
- C. Check whether the object (UUID ending in 25606) is included in this package
- D. Check whether the object (UUID ending in 7t00000i4e7a) is included in this package

**Answer: D**

Explanation:

The error log provided indicates issues during the package import into the target environment, with multiple objects failing to import due to missing precedents. The key error messages highlight specific UUIDs associated with objects that cannot be resolved. The first error listed states:

"TEST\_ENTITY\_PROFILE\_MERGE\_HISTORY": The content [id=uuid-a-0000m5fc-f0e6-8000-9b01-011c48011c48, 18028821] was not imported because a required precedent is missing: entity [uuid=a-0000m5fc-f0e6-8000-9b01-011c48011c48, 18028821] cannot be found..." According to Appian's Package Deployment Best Practices, when importing a package, the first step in troubleshooting is to identify the root cause of the failure. The initial error in the log points to an entity object with a UUID ending in 18028821, which failed to import due to a missing precedent. This suggests that the object itself or one of its dependencies (e.g., a data store or related entity) is either missing from the package or not present in the target environment.

Option A (Check whether the object (UUID ending in 18028821) is included in this package): This is the correct first action. Since the first error references this UUID, verifying its inclusion in the package is the logical starting point. If it's missing, the package export from the source environment was incomplete. If it's included but still fails, the precedent issue (e.g., a missing data store) needs further investigation.

Option B (Check whether the object (UUID ending in 7t00000i4e7a) is included in this package): This appears to be a typo or corrupted UUID (likely intended as something like "7t000014e7a" or similar), and it's not referenced in the primary error. It's mentioned later in the log but is not the first issue to address.

Option C (Check whether the object (UUID ending in 25606) is included in this package): This UUID is associated with a data store error later in the log, but it's not the first reported issue.

Option D (Check whether the object (UUID ending in 18028931) is included in this package): This UUID is mentioned in a subsequent error related to a process model or expression rule, but it's not the initial failure point.

Appian recommends addressing errors in the order they appear in the log to systematically resolve dependencies. Thus, starting with the object ending in 18028821 is the priority.

#### NEW QUESTION # 27

You have an active development team (Team A) building enhancements for an application (App X) and are currently using the TEST environment for User Acceptance Testing (UAT).

A separate operations team (Team B) discovers a critical error in the Production instance of App X that they must remediate.

However, Team B does not have a hotfix stream for which to accomplish this. The available environments are DEV, TEST, and PROD.

Which risk mitigation effort should both teams employ to ensure Team A's capital project is only minorly interrupted, and Team B's critical fix can be completed and deployed quickly to end users?

- **A. Team B must communicate to Team A which component will be addressed in the hotfix to avoid overlap of changes. If overlap exists, the component must be versioned to its PROD state before being remediated and deployed, and then versioned back to its latest development state. If overlap does not exist, the component may be remediated and deployed without any version changes.**
- B. Team A must analyze their current codebase in DEV to merge the hotfix changes into their latest enhancements. Team B is then required to wait for the hotfix to follow regular deployment protocols from DEV to the PROD environment.
- C. Team B must address changes in the TEST environment. These changes can then be tested and deployed directly to PROD. Once the deployment is complete, Team B can then communicate their changes to Team A to ensure they are incorporated as part of the next release.
- D. Team B must address the changes directly in PROD. As there is no hotfix stream, and DEV and TEST are being utilized for active development, it is best to avoid a conflict of components. Once Team A has completed their enhancements work, Team B can update DEV and TEST accordingly.

**Answer: A**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, managing concurrent development and operations (hotfix) activities across limited environments (DEV, TEST, PROD) requires minimizing disruption to Team A's enhancements while ensuring Team B's critical fix reaches PROD quickly. The scenario highlights no hotfix stream, active UAT in TEST, and a critical PROD issue, necessitating a strategic approach. Let's evaluate each option:

A. Team B must communicate to Team A which component will be addressed in the hotfix to avoid overlap of changes. If overlap exists, the component must be versioned to its PROD state before being remediated and deployed, and then versioned back to its latest development state. If overlap does not exist, the component may be remediated and deployed without any version changes: This is the best approach. It ensures collaboration between teams to prevent conflicts, leveraging Appian's version control (e.g., object versioning in Appian Designer). Team B identifies the critical component, checks for overlap with Team A's work, and uses versioning to isolate changes. If no overlap exists, the hotfix deploys directly; if overlap occurs, versioning preserves Team A's work, allowing the hotfix to deploy and then reverting the component for Team A's continuation. This minimizes interruption to Team A's UAT, enables rapid PROD deployment, and aligns with Appian's change management best practices.

B. Team A must analyze their current codebase in DEV to merge the hotfix changes into their latest enhancements. Team B is then required to wait for the hotfix to follow regular deployment protocols from DEV to the PROD environment: This delays Team B's critical fix, as regular deployment (DEV → TEST → PROD) could take weeks, violating the need for "quick deployment to end users." It also risks introducing Team A's untested enhancements into the hotfix, potentially destabilizing PROD. Appian's documentation discourages mixing development and hotfix workflows, favoring isolated changes for urgent fixes, making this inefficient and risky.

C. Team B must address changes in the TEST environment. These changes can then be tested and deployed directly to PROD. Once the deployment is complete, Team B can then communicate their changes to Team A to ensure they are incorporated as part of the next release:

Using TEST for hotfix development disrupts Team A's UAT, as TEST is already in use for their enhancements. Direct deployment from TEST to PROD skips DEV validation, increasing risk, and doesn't address overlap with Team A's work. Appian's deployment guidelines emphasize separate streams (e.g., hotfix streams) to avoid such conflicts, making this disruptive and unsafe.

D. Team B must address the changes directly in PROD. As there is no hotfix stream, and DEV and TEST are being utilized for active development, it is best to avoid a conflict of components. Once Team A has completed their enhancements work, Team B can update DEV and TEST accordingly:

Making changes directly in PROD is highly discouraged in Appian due to lack of testing, version control, and rollback capabilities, risking further instability. This violates Appian's Production governance and security policies, and delays Team B's updates until Team A finishes, contradicting the need for a "quick deployment." Appian's best practices mandate using lower environments for changes, ruling this out.

Conclusion: Team B communicating with Team A, versioning components if needed, and deploying the hotfix (A) is the risk mitigation effort. It ensures minimal interruption to Team A's work, rapid PROD deployment for Team B's fix, and leverages Appian's versioning for safe, controlled changes-aligning with Lead Developer standards for multi-team coordination.

Appian Documentation: "Managing Production Hotfixes" (Versioning and Change Management).

Appian Lead Developer Certification: Application Management Module (Hotfix Strategies).

Appian Best Practices: "Concurrent Development and Operations" (Minimizing Risk in Limited Environments).

### NEW QUESTION # 28

Users must be able to navigate throughout the application while maintaining complete visibility in the application structure and easily navigate to previous locations. Which Appian Interface Pattern would you recommend?

- A. Implement a Drilldown Report pattern to show detailed information about report data.
- B. Implement an Activity History pattern to track an organization's activity measures.
- **C. Include a Breadcrumbs pattern on applicable interfaces to show the organizational hierarchy.**
- D. Use Billboards as Cards pattern on the homepage to prominently display application choices.

**Answer: C**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

The requirement emphasizes navigation with complete visibility of the application structure and the ability to return to previous locations easily. The Breadcrumbs pattern is specifically designed to meet this need. According to Appian's design best practices, the Breadcrumbs pattern provides a visual trail of the user's navigation path, showing the hierarchy of pages or sections within the application. This allows users to understand their current location relative to the overall structure and quickly navigate back to previous levels by clicking on the breadcrumb links.

Option A (Billboards as Cards): This pattern is useful for presenting high-level options or choices on a homepage in a visually appealing way. However, it does not address navigation visibility or the ability to return to previous locations, making it irrelevant to the requirement.

Option B (Activity History): This pattern tracks and displays a log of activities or actions within the application, typically for auditing or monitoring purposes. It does not enhance navigation or provide visibility into the application structure.

Option C (Drilldown Report): This pattern allows users to explore detailed data within reports by drilling into specific records. While it supports navigation within data, it is not designed for general application navigation or maintaining structural visibility.

Option D (Breadcrumbs): This is the correct choice as it directly aligns with the requirement. Per Appian's Interface Patterns documentation, Breadcrumbs improve usability by showing a hierarchical path (e.g., Home > Section > Subsection) and enabling backtracking, fulfilling both visibility and navigation needs.

### NEW QUESTION # 29

Your application contains a process model that is scheduled to run daily at a certain time, which kicks off a user input task to a specified user on the 1st time zone for morning data collection. The time zone is set to the (default) pm!timezone. In this situation, what does the pm!timezone reflect?

- A. The time zone of the user who most recently published the process model.
- B. The time zone of the user who is completing the input task.
- **C. The default time zone for the environment as specified in the Administration Console.**
- D. The time zone of the server where Appian is installed.

**Answer: C**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

In Appian, the pm!timezone variable is a process variable automatically available in process models, reflecting the time zone context for scheduled or time-based operations. Understanding its behavior is critical for scheduling tasks accurately, especially in scenarios like this where a process runs daily and assigns a user input task.

Option C (The default time zone for the environment as specified in the Administration Console):

This is the correct answer. Per Appian's Process Model documentation, when a process model uses pm!timezone and no custom time zone is explicitly set, it defaults to the environment's time zone configured in the Administration Console (under System > Time Zone settings). For scheduled processes, such as one running "daily at a certain time," Appian uses this default time zone to determine when the process triggers. In this case, the task assignment occurs based on the schedule, and pm!timezone reflects the environment's setting, not the user's location.

Option A (The time zone of the server where Appian is installed): This is incorrect. While the server's time zone might influence underlying system operations, Appian abstracts this through the Administration Console's time zone setting. The pm!timezone variable aligns with the configured environment time zone, not the raw server setting.

Option B (The time zone of the user who most recently published the process model): This is irrelevant. Publishing a process model does not tie pm!timezone to the publisher's time zone. Appian's scheduling is system-driven, not user-driven in this context.

Option D (The time zone of the user who is completing the input task): This is also incorrect. While Appian can adjust task display times in the user interface to the assigned user's time zone (based on their profile settings), the pm!timezone in the process model reflects the environment's default time zone for scheduling purposes, not the assignee's.

For example, if the Administration Console is set to EST (Eastern Standard Time), the process will trigger daily at the specified time in EST, regardless of the assigned user's location. The "1st time zone" phrasing in the question appears to be a typo or miscommunication, but it doesn't change the fact that `pm!timezone` defaults to the environment setting.

### NEW QUESTION # 30

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

**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 # 31

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