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ACD301 Exam Guide - ACD301 Sample Questions

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Appian Lead Developer Sample Questions (Q10-Q15):

NEW QUESTION # 10

You are required to create an integration from your Appian Cloud instance to an application hosted within a customer's self-managed environment.

The customer's IT team has provided you with a REST API endpoint to test with: <https://internal.network/api/api/ping>. Which recommendation should you make to progress this integration?

- A. Set up a VPN tunnel.
- B. Expose the API as a SOAP-based web service.
- C. Deploy the API/service into Appian Cloud.
- D. Add Appian Cloud's IP address ranges to the customer network's allowed IP listing.

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, integrating an Appian Cloud instance with a customer's self-managed (on-premises) environment requires addressing network connectivity, security, and Appian's cloud architecture constraints. The provided endpoint (<https://internal.network/api/api/ping>) is a REST API on an internal network, inaccessible directly from Appian Cloud due to firewall restrictions and lack of public exposure. Let's evaluate each option:

A . Expose the API as a SOAP-based web service:

Converting the REST API to SOAP isn't a practical recommendation. The customer has provided a REST endpoint, and Appian fully supports REST integrations via Connected Systems and Integration objects. Changing the API to SOAP adds unnecessary complexity, development effort, and risks for the customer, with no benefit to Appian's integration capabilities. Appian's documentation emphasizes using the API's native format (REST here), making this irrelevant.

B . Deploy the API/service into Appian Cloud:

Deploying the customer's API into Appian Cloud is infeasible. Appian Cloud is a managed PaaS environment, not designed to host customer applications or APIs. The API resides in the customer's self-managed environment, and moving it would require significant architectural changes, violating security and operational boundaries. Appian's integration strategy focuses on connecting to external systems, not hosting them, ruling this out.

C . Add Appian Cloud's IP address ranges to the customer network's allowed IP listing:

This approach involves whitelisting Appian Cloud's IP ranges (available in Appian documentation) in the customer's firewall to allow direct HTTP/HTTPS requests. However, Appian Cloud's IPs are dynamic and shared across tenants, making this unreliable for long-term integrations-changes in IP ranges could break connectivity. Appian's best practices discourage relying on IP whitelisting for cloud-to-on-premises integrations due to this limitation, favoring secure tunnels instead.

D . Set up a VPN tunnel:

This is the correct recommendation. A Virtual Private Network (VPN) tunnel establishes a secure, encrypted connection between Appian Cloud and the customer's self-managed network, allowing Appian to access the internal REST API (<https://internal.network/api/api/ping>). Appian supports VPNs for cloud-to-on-premises integrations, and this approach ensures reliability, security, and compliance with network policies. The customer's IT team can configure the VPN, and Appian's documentation recommends this for such scenarios, especially when dealing with internal endpoints.

Conclusion: Setting up a VPN tunnel (D) is the best recommendation. It enables secure, reliable connectivity from Appian Cloud to the customer's internal API, aligning with Appian's integration best practices for cloud-to-on-premises scenarios.

Reference:

Appian Documentation: "Integrating Appian Cloud with On-Premises Systems" (VPN and Network Configuration).

Appian Lead Developer Certification: Integration Module (Cloud-to-On-Premises Connectivity).

Appian Best Practices: "Securing Integrations with Legacy Systems" (VPN Recommendations).

NEW QUESTION # 11

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 server where Appian is installed.

- C. The time zone of the user who is completing the input task.
- D. The default time zone for the environment as specified in the Administration Console.

Answer: D

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.

References: Appian Documentation - Process Variables (pm!timezone), Appian Lead Developer Training - Process Scheduling and Time Zone Management, Administration Console Guide - System Settings.

NEW QUESTION # 12

You are the lead developer for an Appian project, in a backlog refinement meeting. You are presented with the following user story: "As a restaurant customer, I need to be able to place my food order online to avoid waiting in line for takeout." Which two functional acceptance criteria would you consider 'good'?

- A. The user will receive an email notification when their order is completed.
- B. The system must handle up to 500 unique orders per day.
- C. The user cannot submit the form without filling out all required fields.
- D. The user will click Save, and the order information will be saved in the ORDER table and have audit history.

Answer: C,D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, defining "good" functional acceptance criteria for a user story requires ensuring they are specific, testable, and directly tied to the user's need (placing an online food order to avoid waiting in line). Good criteria focus on functionality, usability, and reliability, aligning with Appian's Agile and design best practices. Let's evaluate each option:

A . The user will click Save, and the order information will be saved in the ORDER table and have audit history:

This is a "good" criterion. It directly validates the core functionality of the user story—placing an order online. Saving order data in the ORDER table (likely via a process model or Data Store Entity) ensures persistence, and audit history (e.g., using Appian's audit logs or database triggers) tracks changes, supporting traceability and compliance. This is specific, testable (e.g., verify data in the table and logs), and essential for the user's goal, aligning with Appian's data management and user experience guidelines.

B . The user will receive an email notification when their order is completed:

While useful, this is a "nice-to-have" enhancement, not a core requirement of the user story. The story focuses on placing an order online to avoid waiting, not on completion notifications. Email notifications add value but aren't essential for validating the primary functionality. Appian's user story best practices prioritize criteria tied to the main user need, making this secondary and not "good" in this context.

C . The system must handle up to 500 unique orders per day:

This is a non-functional requirement (performance/scalability), not a functional acceptance criterion. It describes system capacity, not specific user behavior or functionality. While important for design, it's not directly testable for the user story's outcome (placing an order) and isn't tied to the user's experience. Appian's Agile methodologies separate functional and non-functional requirements,

making this less relevant as a "good" criterion here.

D . The user cannot submit the form without filling out all required fields:

This is a "good" criterion. It ensures data integrity and usability by preventing incomplete orders, directly supporting the user's ability to place a valid online order. In Appian, this can be implemented using form validation (e.g., required attributes in SAIL interfaces or process model validations), making it specific, testable (e.g., verify form submission fails with missing fields), and critical for a reliable user experience. This aligns with Appian's UI design and user story validation standards.

Conclusion: The two "good" functional acceptance criteria are A (order saved with audit history) and D (required fields enforced). These directly validate the user story's functionality (placing a valid order online), are testable, and ensure a reliable, user-friendly experience-aligning with Appian's Agile and design best practices for user stories.

Reference:

Appian Documentation: "Writing Effective User Stories and Acceptance Criteria" (Functional Requirements).

Appian Lead Developer Certification: Agile Development Module (Acceptance Criteria Best Practices).

Appian Best Practices: "Designing User Interfaces in Appian" (Form Validation and Data Persistence).

NEW QUESTION # 13

You are the project lead for an Appian project with a supportive product owner and complex business requirements involving a customer management system. Each week, you notice the product owner becoming more irritated and not devoting as much time to the project, resulting in tickets becoming delayed due to a lack of involvement. Which two types of meetings should you schedule to address this issue?

- A. An additional daily stand-up meeting to ensure you have more of the product owner's time.
- B. A meeting with the sponsor to discuss the product owner's performance and request a replacement.
- C. A sprint retrospective with the product owner and development team to discuss team performance.
- D. A risk management meeting with your program manager to escalate the delayed tickets.

Answer: C,D

Explanation:

Comprehensive and Detailed In-Depth Explanation: As an Appian Lead Developer, managing stakeholder engagement and ensuring smooth project progress are critical responsibilities. The scenario describes a product owner whose decreasing involvement is causing delays, which requires a proactive and collaborative approach rather than an immediate escalation to replacement. Let's analyze each option:

* A. An additional daily stand-up meeting: While daily stand-ups are a core Agile practice to align the team, adding another one specifically to secure the product owner's time is inefficient. Appian's Agile methodology (aligned with Scrum) emphasizes that stand-ups are for the development team to coordinate, not to force stakeholder availability. The product owner's irritation might increase with additional meetings, making this less effective.

* B. A risk management meeting with your program manager: This is a correct choice. Appian Lead Developer documentation highlights the importance of risk management in complex projects (e.g., customer management systems). Delays due to lack of product owner involvement constitute a project risk. Escalating this to the program manager ensures visibility and allows for strategic mitigation, such as resource reallocation or additional support, without directly confronting the product owner in a way that could damage the relationship. This aligns with Appian's project governance best practices.

* C. A sprint retrospective with the product owner and development team: This is also a correct choice.

The sprint retrospective, as per Appian's Agile guidelines, is a key ceremony to reflect on what's working and what isn't. Including the product owner fosters collaboration and provides a safe space to address their reduced involvement and its impact on ticket delays. It encourages team accountability and aligns with Appian's focus on continuous improvement in Agile development.

* D. A meeting with the sponsor to discuss the product owner's performance and request a replacement:

This is premature and not recommended as a first step. Appian's Lead Developer training emphasizes maintaining strong stakeholder relationships and resolving issues collaboratively before escalating to drastic measures like replacement. This option risks alienating the product owner and disrupting the project further, which contradicts Appian's stakeholder management principles.

Conclusion: The best approach combines B (risk management meeting) to address the immediate risk of delays with a higher-level escalation and C (sprint retrospective) to collaboratively resolve the product owner's engagement issues. These align with Appian's Agile and leadership strategies for Lead Developers.

References:

* Appian Lead Developer Certification: Agile Project Management Module (Risk Management and Stakeholder Engagement).

* Appian Documentation: "Best Practices for Agile Development in Appian" (Sprint Retrospectives and Team Collaboration).

NEW QUESTION # 14

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 a rule that can be used across the platform for section headers, and update each application to reference this new rule.**
- D. In the common application, create one rule for each application, and update each application to reference its respective rule.

Answer: C

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.

References:

* 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 # 15

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