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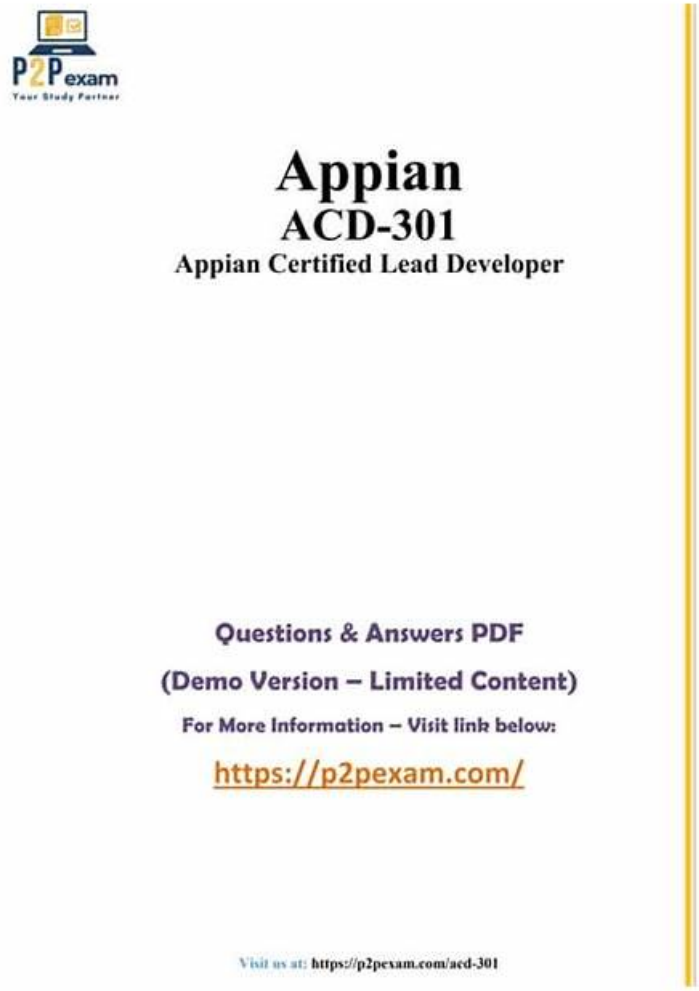

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Appian Certified Lead Developer Sample Questions (Q40-Q45):

NEW QUESTION # 40
An Appian application contains an integration used to send a JSON, called at the end of a form submission, returning the created code of the user request as the response. To be able to efficiently follow their case, the user needs to be informed of that code at the end of the process. The JSON contains case fields (such as text, dates, and numeric fields) to a customer's API. What should be your two primary considerations when building this integration?

- A. The request must be a multi-part POST.
- B. A process must be built to retrieve the API response afterwards so that the user experience is not impacted.
- C. A dictionary that matches the expected request body must be manually constructed.
- D. The size limit of the body needs to be carefully followed to avoid an error.

Answer: C,D

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, building an integration to send JSON to a customer's API and return a code to the user involves balancing usability, performance, and reliability. The integration is triggered at form submission, and the user must see the response (case code) efficiently. The JSON includes standard fields (text, dates, numbers), and the focus is on primary considerations for the integration itself. Let's evaluate each option based on Appian's official documentation and best practices:
A . A process must be built to retrieve the API response afterwards so that the user experience is not impacted:
This suggests making the integration asynchronous by calling it in a process model (e.g., via a Start Process smart service) and retrieving the response later, avoiding delays in the UI. While this improves user experience for slow APIs (e.g., by showing a "Processing" message), it contradicts the requirement that the user is "informed of that code at the end of the process." Asynchronous processing would delay the code display, requiring additional steps (e.g., a follow-up task), which isn't efficient for this use case. Appian's default integration pattern (synchronous call in an Integration object) is suitable unless latency is a known issue, making this a secondary-not primary-consideration.
B . The request must be a multi-part POST:
A multi-part POST (e.g., multipart/form-data) is used for sending mixed content, like files and text, in a single request. Here, the payload is a JSON containing case fields (text, dates, numbers)-no files are mentioned. Appian's HTTP Connected System and Integration objects default to application/json for JSON payloads via a standard POST, which aligns with REST API norms. Forcing a multi-part POST adds unnecessary complexity and is incompatible with most APIs expecting JSON. Appian documentation confirms this isn't required for JSON-only data, ruling it out as a primary consideration.
C . The size limit of the body needs to be carefully followed to avoid an error:
This is a primary consideration. Appian's Integration object has a payload size limit (approximately 10 MB, though exact limits depend on the environment and API), and exceeding it causes errors (e.g., 413 Payload Too Large). The JSON includes multiple case fields, and while "hundreds of thousands" isn't specified, large datasets could approach this limit. Additionally, the customer's API may impose its own size restrictions (common in REST APIs). Appian Lead Developer training emphasizes validating payload size during design-e.g., testing with maximum expected data-to prevent runtime failures. This ensures reliability and is critical for production success.
D . A dictionary that matches the expected request body must be manually constructed:
This is also a primary consideration. The integration sends a JSON payload to the customer's API, which expects a specific structure (e.g., { "field1": "text", "field2": "date" }). In Appian, the Integration object requires a dictionary (key-value pairs) to construct the JSON body, manually built to match the API's schema. Mismatches (e.g., wrong field names, types) cause errors (e.g., 400 Bad Request) or silent failures. Appian's documentation stresses defining the request body accurately-e.g., mapping form data to a CDT or dictionary-ensuring the API accepts the payload and returns the case code correctly. This is foundational to the integration's functionality.
Conclusion: The two primary considerations are C (size limit of the body) and D (constructing a matching dictionary). These ensure the integration works reliably (C) and meets the API's expectations (D), directly enabling the user to receive the case code at submission end. Size limits prevent technical failures, while the dictionary ensures data integrity-both are critical for a synchronous JSON POST in Appian. Option A could be relevant for performance but isn't primary given the requirement, and B is irrelevant to the scenario.
Appian Documentation: "Integration Object" (Request Body Configuration and Size Limits).
Appian Lead Developer Certification: Integration Module (Building REST API Integrations).
Appian Best Practices: "Designing Reliable Integrations" (Payload Validation and Error Handling).

NEW QUESTION # 41
As part of an upcoming release of an application, a new nullable field is added to a table that contains customer dat a. The new field is used by a report in the upcoming release and is calculated using data from another table.
Which two actions should you consider when creating the script to add the new field?

- A. Create a script that adds the field and then populates it.
- B. Create a rollback script that removes the field.
- C. Create a script that adds the field and leaves it null.
- D. Create a rollback script that clears the data from the field.
- E. Add a view that joins the customer data to the data used in calculation.

Answer: A,B

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, adding a new nullable field to a database table for an upcoming release requires careful planning to ensure data integrity, report functionality, and rollback capability. The field is used in a report and calculated from another table, so the script must handle both deployment and potential reversibility. Let's evaluate each option:
A . Create a script that adds the field and leaves it null:
Adding a nullable field and leaving it null is technically feasible (e.g., using ALTER TABLE ADD COLUMN in SQL), but it doesn't address the report's need for calculated data. Since the field is used in a report and calculated from another table, leaving it null risks incomplete or incorrect reporting until populated, delaying functionality. Appian's data management best practices recommend populating data during deployment for immediate usability, making this insufficient as a standalone action.
B . Create a rollback script that removes the field:
This is a critical action. In Appian, database changes (e.g., adding a field) must be reversible in case of deployment failure or rollback needs (e.g., during testing or PROD issues). A rollback script that removes the field (e.g., ALTER TABLE DROP COLUMN) ensures the database can return to its original state, minimizing risk. Appian's deployment guidelines emphasize rollback scripts for schema changes, making this essential for safe releases.
C . Create a script that adds the field and then populates it:
This is also essential. Since the field is nullable, calculated from another table, and used in a report, populating it during deployment ensures immediate functionality. The script can use SQL (e.g., UPDATE table SET new_field = (SELECT calculated_value FROM other_table WHERE condition)) to populate data, aligning with Appian's data fabric principles for maintaining data consistency. Appian's documentation recommends populating new fields during deployment for reporting accuracy, making this a key action.
D . Create a rollback script that clears the data from the field:
Clearing data (e.g., UPDATE table SET new_field = NULL) is less effective than removing the field entirely. If the deployment fails, the field's existence with null values could confuse reports or processes, requiring additional cleanup. Appian's rollback strategies favor reverting schema changes completely (removing the field) rather than leaving it with nulls, making this less reliable and unnecessary compared to B.
E . Add a view that joins the customer data to the data used in calculation:
Creating a view (e.g., CREATE VIEW customer_report AS SELECT ... FROM customer_table JOIN other_table ON ...) is useful for reporting but isn't a prerequisite for adding the field. The scenario focuses on the field addition and population, not reporting structure. While a view could optimize queries, it's a secondary step, not a primary action for the script itself. Appian's data modeling best practices suggest views as post-deployment optimizations, not script requirements.
Conclusion: The two actions to consider are B (create a rollback script that removes the field) and C (create a script that adds the field and then populates it). These ensure the field is added with data for immediate report usability and provide a safe rollback option, aligning with Appian's deployment and data management standards for schema changes.
Appian Documentation: "Database Schema Changes" (Adding Fields and Rollback Scripts).
Appian Lead Developer Certification: Data Management Module (Schema Deployment Strategies).
Appian Best Practices: "Managing Data Changes in Production" (Populating and Rolling Back Fields).

NEW QUESTION # 42
You need to generate a PDF document with specific formatting. Which approach would you recommend?

- A. Create an embedded interface with the necessary content and ask the user to use the browser "Print" functionality to save it as a PDF.
- B. Use the Word Doc from Template smart service in a process model to add the specific format.
- C. Use the PDF from XSL-FO Transformation smart service to generate the content with the specific format.
- D. There is no way to fulfill the requirement using Appian. Suggest sending the content as a plain email instead.

Answer: C

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, generating a PDF with specific formatting is a common requirement, and Appian provides several tools to achieve this. The question emphasizes "specific formatting," which implies precise control over layout, styling, and content structure. Let's evaluate each option based on Appian's official documentation and capabilities:
A . Create an embedded interface with the necessary content and ask the user to use the browser "Print" functionality to save it as a PDF:
This approach involves designing an interface (e.g., using SAIL components) and relying on the browser's native print-to-PDF feature. While this is feasible for simple content, it lacks precision for "specific formatting." Browser rendering varies across devices and browsers, and print styles (e.g., CSS) are limited in Appian's control. Appian Lead Developer best practices discourage relying on client-side functionality for critical document generation due to inconsistency and lack of automation. This is not a recommended solution for a production-grade requirement.
B . Use the PDF from XSL-FO Transformation smart service to generate the content with the specific format:
This is the correct choice. The "PDF from XSL-FO Transformation" smart service (available in Appian's process modeling toolkit) allows developers to generate PDFs programmatically with precise formatting using XSL-FO (Extensible Stylesheet Language Formatting Objects). XSL-FO provides fine-grained control over layout, fonts, margins, and styling-ideal for "specific formatting" requirements. In a process model, you can pass XML data and an XSL-FO stylesheet to this smart service, producing a downloadable PDF. Appian's documentation highlights this as the preferred method for complex PDF generation, making it a robust, scalable, and Appian-native solution.
C . Use the Word Doc from Template smart service in a process model to add the specific format:
This option uses the "Word Doc from Template" smart service to generate a Microsoft Word document from a template (e.g., a .docx file with placeholders). While it supports formatting defined in the template and can be converted to PDF post-generation (e.g., via a manual step or external tool), it's not a direct PDF solution. Appian doesn't natively convert Word to PDF within the platform, requiring additional steps outside the process model. For "specific formatting" in a PDF, this is less efficient and less precise than the XSL-FO approach, as Word templates are better suited for editable documents rather than final PDFs.
D . There is no way to fulfill the requirement using Appian. Suggest sending the content as a plain email instead:
This is incorrect. Appian provides multiple tools for document generation, including PDFs, as evidenced by options B and C. Suggesting a plain email fails to meet the requirement of generating a formatted PDF and contradicts Appian's capabilities. Appian Lead Developer training emphasizes leveraging platform features to meet business needs, ruling out this option entirely.
Conclusion: The PDF from XSL-FO Transformation smart service (B) is the recommended approach. It provides direct PDF generation with specific formatting control within Appian's process model, aligning with best practices for document automation and precision. This method is scalable, repeatable, and fully supported by Appian's architecture.
Appian Documentation: "PDF from XSL-FO Transformation Smart Service" (Process Modeling > Smart Services).
Appian Lead Developer Certification: Document Generation Module (PDF Generation Techniques).
Appian Best Practices: "Generating Documents in Appian" (XSL-FO vs. Template-Based Approaches).

NEW QUESTION # 43
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 default time zone for the environment as specified in the Administration Console.
- D. The time zone of the user who is completing the input task.

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 # 44
You are in a backlog refinement meeting with the development team and the product owner. You review a story for an integration involving a third-party system. A payload will be sent from the Appian system through the integration to the third-party system. The story is 21 points on a Fibonacci scale and requires development from your Appian team as well as technical resources from the third-party system. This item is crucial to your project's success. What are the two recommended steps to ensure this story can be developed effectively?

- A. Break down the item into smaller stories.
- B. Identify subject matter experts (SMEs) to perform user acceptance testing (UAT).
- C. Acquire testing steps from QA resources.
- D. Maintain a communication schedule with the third-party resources.

Answer: A,D

Explanation:
Comprehensive and Detailed In-Depth Explanation:
This question involves a complex integration story rated at 21 points on the Fibonacci scale, indicating significant complexity and effort. Appian Lead Developer best practices emphasize effective collaboration, risk mitigation, and manageable development scopes for such scenarios. The two most critical steps are:
Option C (Maintain a communication schedule with the third-party resources):
Integrations with third-party systems require close coordination, as Appian developers depend on external teams for endpoint specifications, payload formats, authentication details, and testing support. Establishing a regular communication schedule ensures alignment on requirements, timelines, and issue resolution. Appian's Integration Best Practices documentation highlights the importance of proactive communication with external stakeholders to prevent delays and misunderstandings, especially for critical project components.
Option D (Break down the item into smaller stories):
A 21-point story is considered large by Agile standards (Fibonacci scale typically flags anything above 13 as complex). Appian's Agile Development Guide recommends decomposing large stories into smaller, independently deliverable pieces to reduce risk, improve testability, and enable iterative progress. For example, the integration could be split into tasks like designing the payload structure, building the integration object, and testing the connection-each manageable within a sprint. This approach aligns with the principle of delivering value incrementally while maintaining quality.
Option A (Acquire testing steps from QA resources): While QA involvement is valuable, this step is more relevant during the testing phase rather than backlog refinement or development preparation. It's not a primary step for ensuring effective development of the story.
Option B (Identify SMEs for UAT): User acceptance testing occurs after development, during the validation phase. Identifying SMEs is important but not a key step in ensuring the story is developed effectively during the refinement and coding stages.
By choosing C and D, you address both the external dependency (third-party coordination) and internal complexity (story size), ensuring a smoother development process for this critical integration.

NEW QUESTION # 45
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