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Appian ACD301 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Platform Management: This section of the exam measures skills of Appian System Administrators and covers the ability to manage platform operations such as deploying applications across environments, troubleshooting platform-level issues, configuring environment settings, and understanding platform architecture. Candidates are also expected to know when to involve Appian Support and how to adjust admin console configurations to maintain stability and performance.
Topic 2	<ul style="list-style-type: none">Data Management: This section of the exam measures skills of Data Architects and covers analyzing, designing, and securing data models. Candidates must demonstrate an understanding of how to use Appian's data fabric and manage data migrations. The focus is on ensuring performance in high-volume data environments, solving data-related issues, and implementing advanced database features effectively.
Topic 3	<ul style="list-style-type: none">Extending Appian: This section of the exam measures skills of Integration Specialists and covers building and troubleshooting advanced integrations using connected systems and APIs. Candidates are expected to work with authentication, evaluate plug-ins, develop custom solutions when needed, and utilize document generation options to extend the platform's capabilities.

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Appian Lead Developer Sample Questions (Q37-Q42):

NEW QUESTION # 37

You need to export data using an out-of-the-box Appian smart service. Which two formats are available (or data generation)?

- A. Excel
- B. JSDN
- C. CSV
- D. XML

Answer: A,C

Explanation:

The two formats that are available for data generation using an out-of-the-box Appian smart service are:

* A. CSV. This is a comma-separated values format that can be used to export data in a tabular form, such as records, reports, or grids. CSV files can be easily opened and manipulated by spreadsheet applications such as Excel or Google Sheets.

* C. Excel. This is a format that can be used to export data in a spreadsheet form, with multiple worksheets, formatting, formulas, charts, and other features. Excel files can be opened by Excel or other compatible applications.

The other options are incorrect for the following reasons:

* B. XML. This is a format that can be used to export data in a hierarchical form, using tags and attributes to define the structure and content of the data. XML files can be opened by text editors or XML parsers, but they are not supported by the out-of-the-box Appian smart service for data generation.

* D. JSON. This is a format that can be used to export data in a structured form, using objects and arrays to represent the data. JSON files can be opened by text editors or JSON parsers, but they are not supported by the out-of-the-box Appian smart service for data generation. Verified References: Appian Documentation, section "Write to Data Store Entity" and "Write to Multiple Data Store Entities".

NEW QUESTION # 38

You are tasked to build a large-scale acquisition application for a prominent customer. The acquisition process tracks the time it takes to fulfill a purchase request with an award.

The customer has structured the contract so that there are multiple application development teams.

How should you design for multiple processes and forms, while minimizing repeated code?

- A. Create duplicate processes and forms as needed.
- B. Create a Scrum of Scrums sprint meeting for the team leads.
- C. Create a common objects application.
- D. Create a Center of Excellence (CoE).

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation:As an Appian Lead Developer, designing a large-scale acquisition application with multiple development teams requires a strategy to manage processes, forms, and code reuse effectively. The goal is to minimize repeated code (e.g., duplicate interfaces, process models) while ensuring scalability and maintainability across teams. Let's evaluate each option:

* A. Create a Center of Excellence (CoE):A Center of Excellence is an organizational structure or team focused on standardizing practices, training, and governance across projects. While beneficial for long-term consistency, it doesn't directly address the technical design of minimizing repeated code for processes and forms. It's a strategic initiative, not a design solution, and doesn't solve the immediate need for code reuse. Appian's documentation mentions CoEs for governance but not as a primary design approach, making this less relevant here.

* B. Create a common objects application:This is the best recommendation. In Appian, a "common objects application" (or shared application) is used to store reusable components like expression rules, interfaces, process models, constants, and data types (e.g., CDTs). For a large-scale acquisition application with multiple teams, centralizing shared objects (e.g., rule!CommonForm, pm!CommonProcess) ensures consistency, reduces duplication, and simplifies maintenance. Teams can reference these objects in their applications, adhering to Appian's design best practices for scalability.

This approach minimizes repeated code while allowing team-specific customizations, aligning with Lead Developer standards for large projects.

* C. Create a Scrum of Scrums sprint meeting for the team leads:A Scrum of Scrums meeting is a coordination mechanism for Agile teams, focusing on aligning sprint goals and resolving cross-team dependencies. While useful for collaboration, it doesn't address the technical design of minimizing repeated code-it's a process, not a solution for codereuse. Appian's Agile methodologies support such

meetings, but they don't directly reduce duplication in processes and forms, making this less applicable.

* D. Create duplicate processes and forms as needed: Duplicating processes and forms (e.g., copying interface!PurchaseForm for each team) leads to redundancy, increased maintenance effort, and potential inconsistencies (e.g., divergent logic). This contradicts the goal of minimizing repeated code and violates Appian's design principles for reusability and efficiency. Appian's documentation strongly discourages duplication, favoring shared objects instead, making this the least effective option.

Conclusion: Creating a common objects application (B) is the recommended design. It centralizes reusable processes, forms, and other components, minimizing code duplication across teams while ensuring consistency and scalability for the large-scale acquisition application. This leverages Appian's application architecture for shared resources, aligning with Lead Developer best practices for multi-team projects.

References:

* Appian Documentation: "Designing Large-Scale Applications" (Common Application for Reusable Objects).

* Appian Lead Developer Certification: Application Design Module (Minimizing Code Duplication).

* Appian Best Practices: "Managing Multi-Team Development" (Shared Objects Strategy).

To build a large scale acquisition application for a prominent customer, you should design for multiple processes and forms, while minimizing repeated code. One way to do this is to create a common objects application, which is a shared application that contains reusable components, such as rules, constants, interfaces, integrations, or data types, that can be used by multiple applications. This way, you can avoid duplication and inconsistency of code, and make it easier to maintain and update your applications. You can also use the common objects application to define common standards and best practices for your application development teams, such as naming conventions, coding styles, or documentation guidelines. Verified References: [Appian Best Practices], [Appian Design Guidance]

NEW QUESTION # 39

You are required to configure a connection so that Jira can inform Appian when specific tickets change (using a webhook). Which three required steps will allow you to connect both systems?

- A. Create an integration object from Appian to Jira to periodically check the ticket status.
- B. Create a new API Key and associate a service account.
- C. Configure the connection in Jira specifying the URL and credentials.
- D. Give the service account system administrator privileges.
- E. Create a Web API object and set up the correct security.

Answer: B,C,E

Explanation:

Comprehensive and Detailed In-Depth Explanation:

Configuring a webhook connection from Jira to Appian requires setting up a mechanism for Jira to push ticket change notifications to Appian in real-time. This involves creating an endpoint in Appian to receive the webhook and configuring Jira to send the data.

Appian's Integration Best Practices and Web API documentation provide the framework for this process.

Option A (Create a Web API object and set up the correct security):

This is a required step. In Appian, a Web API object serves as the endpoint to receive incoming webhook requests from Jira. You must define the API structure (e.g., HTTP method, input parameters) and configure security (e.g., basic authentication, API key, or OAuth) to validate incoming requests. Appian recommends using a service account with appropriate permissions to ensure secure access, aligning with the need for a controlled webhook receiver.

Option B (Configure the connection in Jira specifying the URL and credentials):

This is essential. In Jira, you need to set up a webhook by providing the Appian Web API's URL (e.g., `https://<appian-site>/suite/webapi/<web-api-name>`) and the credentials or authentication method (e.g., API key or basic auth) that match the security setup in Appian. This ensures Jira can successfully send ticket change events to Appian.

Option C (Create a new API Key and associate a service account):

This is necessary for secure authentication. Appian recommends using an API key tied to a service account for webhook integrations. The service account should have permissions to process the incoming data (e.g., write to a process or data store) but not excessive privileges. This step complements the Web API security setup and Jira configuration.

Option D (Give the service account system administrator privileges):

This is unnecessary and insecure. System administrator privileges grant broad access, which is overkill for a webhook integration. Appian's security best practices advocate for least-privilege principles, limiting the service account to the specific objects or actions needed (e.g., executing the Web API).

Option E (Create an integration object from Appian to Jira to periodically check the ticket status):

This is incorrect for a webhook scenario. Webhooks are push-based, where Jira notifies Appian of changes. Creating an integration object for periodic polling (pull-based) is a different approach and not required for the stated requirement of Jira informing Appian via webhook.

These three steps (A, B, C) establish a secure, functional webhook connection without introducing unnecessary complexity or

security risks.

Reference:

The three required steps that will allow you to connect both systems are:

A . Create a Web API object and set up the correct security. This will allow you to define an endpoint in Appian that can receive requests from Jira via webhook. You will also need to configure the security settings for the Web API object, such as authentication method, allowed origins, and access control.

B . Configure the connection in Jira specifying the URL and credentials. This will allow you to set up a webhook in Jira that can send requests to Appian when specific tickets change. You will need to specify the URL of the Web API object in Appian, as well as any credentials required for authentication.

C . Create a new API Key and associate a service account. This will allow you to generate a unique token that can be used for authentication between Jira and Appian. You will also need to create a service account in Appian that has permissions to access or update data related to Jira tickets.

The other options are incorrect for the following reasons:

D . Give the service account system administrator privileges. This is not required and could pose a security risk, as giving system administrator privileges to a service account could allow it to perform actions that are not related to Jira tickets, such as modifying system settings or accessing sensitive data.

E . Create an integration object from Appian to Jira to periodically check the ticket status. This is not required and could cause unnecessary overhead, as creating an integration object from Appian to Jira would involve polling Jira for ticket status changes, which could consume more resources than using webhook notifications. Verified Reference: Appian Documentation, section "Web API" and "API Keys".

NEW QUESTION # 40

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

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

Answer: A

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 discouragerelying 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.

References:

- * 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 # 41

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

Answer: B,C

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.

References: Appian Lead Developer Training - Integration Best Practices, Appian Agile Development Guide - Story Refinement and Decomposition.

NEW QUESTION # 42

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