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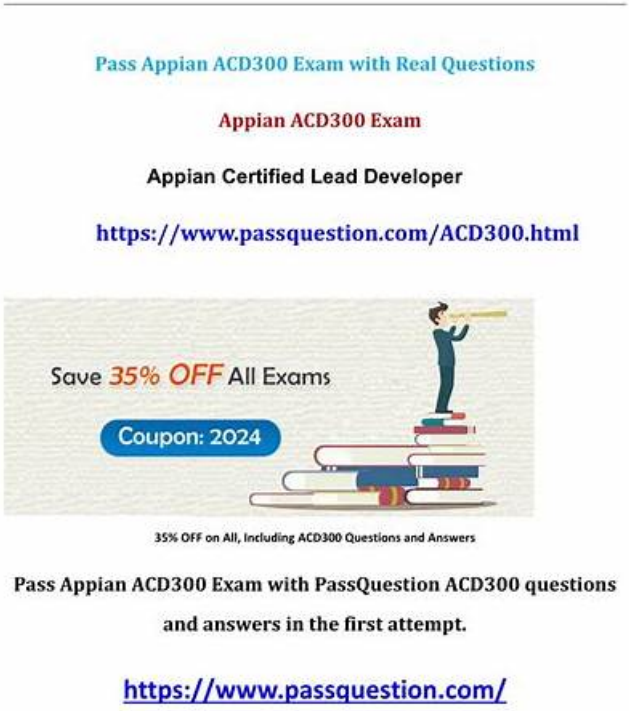

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Appian ACD301 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Project and Resource Management: This section of the exam measures skills of Agile Project Leads and covers interpreting business requirements, recommending design options, and leading Agile teams through technical delivery. It also involves governance, and process standardization.
Topic 3	• 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.

Quiz ACD301 - Pass-Sure Appian Lead Developer Reliable Test Braindumps

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Appian Lead Developer Sample Questions (Q24-Q29):

NEW QUESTION # 24
You have created a Web API in Appian with the following URL to call it: https://exampleappiancloud.com/suite/webapi/user_management/users?username=john.smith. Which is the correct syntax for referring to the username parameter?

- A. httpRequest.users.username
- B. httpRequest.queryParameters.username
- C. httpRequest.queryParameters.users.username
- D. httpRequest.formData.username

Answer: B

Explanation:
Comprehensive and Detailed In-Depth Explanation:
In Appian, when creating a Web API, parameters passed in the URL (e.g., query parameters) are accessed within the Web API expression using the httpRequest object. The URL https://exampleappiancloud.com/suite/webapi/user_management/users?username=john.smith includes a query parameter username with the value john.smith. Appian's Web API documentation specifies how to handle such parameters in the expression rule associated with the Web API.
Option D (httpRequest.queryParameters.username):
This is the correct syntax. The httpRequest.queryParameters object contains all query parameters from the URL. Since username is a single query parameter, you access it directly as httpRequest.queryParameters.username. This returns the value john.smith as a text string, which can then be used in the Web API logic (e.g., to query a user record). Appian's expression language treats query parameters as key-value pairs under queryParameters, making this the standard approach.
Option A (httpRequest.queryParameters.users.username):
This is incorrect. The users part suggests a nested structure (e.g., users as a parameter containing a username subfield), which does not match the URL. The URL only defines username as a top-level query parameter, not a nested object.
Option B (httpRequest.users.username):
This is invalid. The httpRequest object does not have a direct users property. Query parameters are accessed via queryParameters, and there's no indication of a users object in the URL or Appian's Web API model.
Option C (httpRequest.formData.username):
This is incorrect. The httpRequest.formData object is used for parameters passed in the body of a POST or PUT request (e.g., form submissions), not for query parameters in a GET request URL. Since the username is part of the query string (?username=john.smith), formData does not apply.
The correct syntax leverages Appian's standard handling of query parameters, ensuring the Web API can process the username value effectively.

NEW QUESTION # 25

A customer wants to integrate a CSV file once a day into their Appian application, sent every night at 1:00 AM. The file contains hundreds of thousands of items to be used daily by users as soon as their workday starts at 8:00 AM. Considering the high volume of data to manipulate and the nature of the operation, what is the best technical option to process the requirement?

- A. Build a complex and optimized view (relevant indices, efficient joins, etc.), and use it every time a user needs to use the data.
- B. Use an Appian Process Model, initiated after every integration, to loop on each item and update it to the business requirements.
- C. Create a set of stored procedures to handle the volume and the complexity of the expectations, and call it after each integration.
- D. Process what can be completed easily in a process model after each integration, and complete the most complex tasks using a set of stored procedures.

Answer: C

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, handling a daily CSV integration with hundreds of thousands of items requires a solution that balances performance, scalability, and Appian's architectural strengths. The timing (1:00 AM integration, 8:00 AM availability) and data volume necessitate efficient processing and minimal runtime overhead. Let's evaluate each option based on Appian's official documentation and best practices:
A . Use an Appian Process Model, initiated after every integration, to loop on each item and update it to the business requirements:
This approach involves parsing the CSV in a process model and using a looping mechanism (e.g., a subprocess or script task with fn!forEach) to process each item. While Appian process models are excellent for orchestrating workflows, they are not optimized for high-volume data processing. Looping over hundreds of thousands of records would strain the process engine, leading to timeouts, memory issues, or slow execution-potentially missing the 8:00 AM deadline. Appian's documentation warns against using process models for bulk data operations, recommending database-level processing instead. This is not a viable solution.
B . Build a complex and optimized view (relevant indices, efficient joins, etc.), and use it every time a user needs to use the data:
This suggests loading the CSV into a table and creating an optimized database view (e.g., with indices and joins) for user queries via a!queryEntity. While this improves read performance for users at 8:00 AM, it doesn't address the integration process itself. The question focuses on processing the CSV ("manipulate" and "operation"), not just querying. Building a view assumes the data is already loaded and transformed, leaving the heavy lifting of integration unaddressed. This option is incomplete and misaligned with the requirement's focus on processing efficiency.
C . Create a set of stored procedures to handle the volume and the complexity of the expectations, and call it after each integration:
This is the best choice. Stored procedures, executed in the database, are designed for high-volume data manipulation (e.g., parsing CSV, transforming data, and applying business logic). In this scenario, you can configure an Appian process model to trigger at 1:00 AM (using a timer event) after the CSV is received (e.g., via FTP or Appian's File System utilities), then call a stored procedure via the "Execute Stored Procedure" smart service. The stored procedure can efficiently bulk-load the CSV (e.g., using SQL's BULK INSERT or equivalent), process the data, and update tables-all within the database's optimized environment. This ensures completion by 8:00 AM and aligns with Appian's recommendation to offload complex, large-scale data operations to the database layer, maintaining Appian as the orchestration layer.
D . Process what can be completed easily in a process model after each integration, and complete the most complex tasks using a set of stored procedures:
This hybrid approach splits the workload: simple tasks (e.g., validation) in a process model, and complex tasks (e.g., transformations) in stored procedures. While this leverages Appian's strengths (orchestration) and database efficiency, it adds unnecessary complexity. Managing two layers of processing increases maintenance overhead and risks partial failures (e.g., process model timeouts before stored procedures run). Appian's best practices favor a single, cohesive approach for bulk data integration, making this less efficient than a pure stored procedure solution (C).
Conclusion: Creating a set of stored procedures (C) is the best option. It leverages the database's native capabilities to handle the high volume and complexity of the CSV integration, ensuring fast, reliable processing between 1:00 AM and 8:00 AM. Appian orchestrates the trigger and integration (e.g., via a process model), while the stored procedure performs the heavy lifting-aligning with Appian's performance guidelines for large-scale data operations.
Reference:
Appian Documentation: "Execute Stored Procedure Smart Service" (Process Modeling > Smart Services).
Appian Lead Developer Certification: Data Integration Module (Handling Large Data Volumes).
Appian Best Practices: "Performance Considerations for Data Integration" (Database vs. Process Model Processing).

NEW QUESTION # 26
While working on an application, you have identified oddities and breaks in some of your components. How can you guarantee that this mistake does not happen again in the future?

- A. Ensure that the application administrator group only has designers from that application's team.
- B. Design and communicate a best practice that dictates designers only work within the confines of their own application.
- C. Create a best practice that enforces a peer review of the deletion of any components within the application.
- D. Provide Appian developers with the "Designer" permissions role within Appian. Ensure that they have only basic user rights and assign them the permissions to administer their application.

Answer: C

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, preventing recurring "oddities and breaks" in application components requires addressing root causes-likely tied to human error, lack of oversight, or uncontrolled changes-while leveraging Appian's governance and collaboration features. The question implies a past mistake (e.g., accidental deletions or modifications) and seeks a proactive, sustainable solution. Let's evaluate each option based on Appian's official documentation and best practices:
A . Design and communicate a best practice that dictates designers only work within the confines of their own application:
This suggests restricting designers to their assigned applications via a policy. While Appian supports application-level security (e.g., Designer role scoped to specific applications), this approach relies on voluntary compliance rather than enforcement. It doesn't directly address "oddities and breaks"-e.g., a designer could still mistakenly alter components within their own application. Appian's documentation emphasizes technical controls and process rigor over broad guidelines, making this insufficient as a guarantee.
B . Ensure that the application administrator group only has designers from that application's team:
This involves configuring security so only team-specific designers have Administrator rights to the application (via Appian's Security settings). While this limits external interference, it doesn't prevent internal mistakes (e.g., a team designer deleting a critical component). Appian's security model already restricts access by default, and the issue isn't about unauthorized access but rather component integrity. This step is a hygiene factor, not a direct solution to the problem, and fails to "guarantee" prevention.
C . Create a best practice that enforces a peer review of the deletion of any components within the application:
This is the best choice. A peer review process for deletions (e.g., process models, interfaces, or records) introduces a checkpoint to catch errors before they impact the application. In Appian, deletions are permanent and can cascade (e.g., breaking dependencies), aligning with the "oddities and breaks" described. While Appian doesn't natively enforce peer reviews, this can be implemented via team workflows-e.g., using Appian's collaboration tools (like Comments or Tasks) or integrating with version control practices during deployment. Appian Lead Developer training emphasizes change management and peer validation to maintain application stability, making this a robust, preventive measure that directly addresses the root cause.
D . Provide Appian developers with the "Designer" permissions role within Appian. Ensure that they have only basic user rights and assign them the permissions to administer their application:
This option is confusingly worded but seems to suggest granting Designer system role permissions (a high-level privilege) while limiting developers to Viewer rights system-wide, with Administrator rights only for their application. In Appian, the "Designer" system role grants broad platform access (e.g., creating applications), which contradicts "basic user rights" (Viewer role). Regardless, adjusting permissions doesn't prevent mistakes-it only controls who can make them. The issue isn't about access but about error prevention, so this option misses the mark and is impractical due to its contradictory setup.
Conclusion: Creating a best practice that enforces a peer review of the deletion of any components (C) is the strongest solution. It directly mitigates the risk of "oddities and breaks" by adding oversight to destructive actions, leveraging team collaboration, and aligning with Appian's recommended governance practices. Implementation could involve documenting the process, training the team, and using Appian's monitoring tools (e.g., Application Properties history) to track changes-ensuring mistakes are caught before deployment. This provides the closest guarantee to preventing recurrence.
Reference:
Appian Documentation: "Application Security and Governance" (Change Management Best Practices).
Appian Lead Developer Certification: Application Design Module (Preventing Errors through Process).
Appian Best Practices: "Team Collaboration in Appian Development" (Peer Review Recommendations).

NEW QUESTION # 27
As part of your implementation workflow, users need to retrieve data stored in a third-party Oracle database on an interface. You need to design a way to query this information.
How should you set up this connection and query the data?

- A. Configure a Query Database node within the process model. Then, type in the connection information, as well as a SQL query to execute and return the data in process variables.
- B. Configure a timed utility process that queries data from the third-party database daily, and stores it in the Appian business database. Then use a!queryEntity using the Appian data source to retrieve the data.
- C. In the Administration Console, configure the third-party database as a "New Data Source." Then, use a queryEntity to retrieve the data.
- D. Configure an expression-backed record type, calling an API to retrieve the data from the third-party database. Then, use

a!queryRecordType to retrieve the data.

Answer: C

Explanation:
Comprehensive and Detailed In-Depth Explanation:As an Appian Lead Developer, designing a solution to query data from a third-party Oracle database for display on an interface requires secure, efficient, and maintainable integration. The scenario focuses on real-time retrieval for users, so the design must leverage Appian's data connectivity features. Let's evaluate each option:
* A. Configure a Query Database node within the process model. Then, type in the connection information, as well as a SQL query to execute and return the data in process variables:The Query Database node (part of the Smart Services) allows direct SQL execution against a database, but it requires manual connection details (e.g., JDBC URL, credentials), which isn't scalable or secure for Production. Appian's documentation discourages using Query Database for ongoing integrations due to maintenance overhead, security risks (e.g., hardcoding credentials), and lack of governance. This is better for one-off tasks, not real-time interface queries, making it unsuitable.
* B. Configure a timed utility process that queries data from the third-party database daily, and stores it in the Appian business database. Then use a!queryEntity using the Appian data source to retrieve the data:
This approach syncs data daily into Appian's business database (e.g., via a timer event and Query Database node), then queries it with a!queryEntity. While it works for stale data, it introduces latency (up to 24 hours) for users, which doesn't meet real-time needs on an interface. Appian's best practices recommend direct data source connections for up-to-date data, not periodic caching, unless latency is acceptable-making this inefficient here.
* C. Configure an expression-backed record type, calling an API to retrieve the data from the third-party database. Then, use a!queryRecordType to retrieve the data:Expression-backed record types use expressions (e.g., a!httpQuery()) to fetch data, but they're designed for external APIs, not direct database queries. The scenario specifies an Oracle database, not an API, so this requires building a custom REST service on the Oracle side, adding complexity and latency. Appian's documentation favors Data Sources for database queries over API calls when direct access is available, making this less optimal and over-engineered.
* D. In the Administration Console, configure the third-party database as a "New Data Source." Then, use a!queryEntity to retrieve the data:This is the best choice. In the Appian Administration Console, you can configure a JDBC Data Source for the Oracle database, providing connection details (e.g., URL, driver, credentials). This creates a secure, managed connection for querying via a!queryEntity, which is Appian's standard function for Data Store Entities. Users can then retrieve data on interfaces using expression-backed records or queries, ensuring real-time access with minimal latency. Appian's documentation recommends Data Sources for database integrations, offering scalability, security, and governance-perfect for this requirement.
Conclusion: Configuring the third-party database as a New Data Source and using a!queryEntity (D) is the recommended approach. It provides direct, real-time access to Oracle data for interface display, leveraging Appian's native data connectivity features and aligning with Lead Developer best practices for third-party database integration.
References:
* Appian Documentation: "Configuring Data Sources" (JDBC Connections and a!queryEntity).
* Appian Lead Developer Certification: Data Integration Module (Database Query Design).
* Appian Best Practices: "Retrieving External Data in Interfaces" (Data Source vs. API Approaches).

NEW QUESTION # 28
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. Acquire testing steps from QA resources.
- C. Break down the item into smaller stories.
- D. Maintain a communication schedule with the third-party resources.

Answer: C,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 choosingCandD, 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 # 29
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