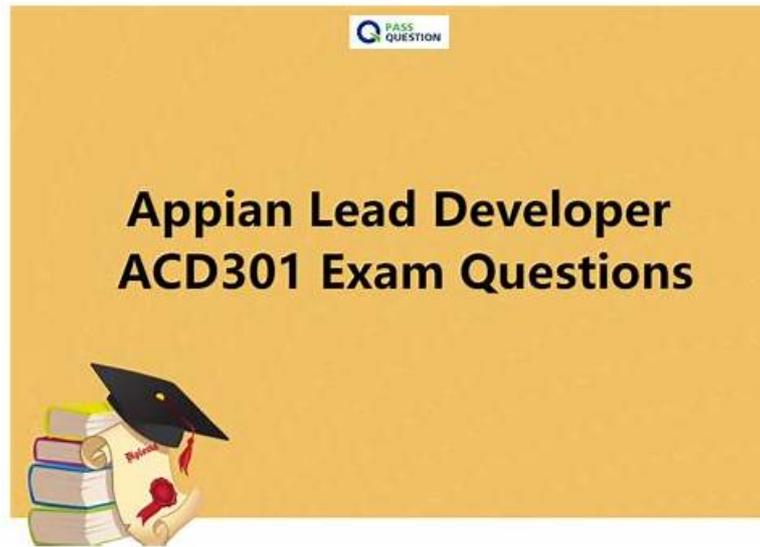


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### Appian ACD301 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Application Design and Development:</b> This section of the exam measures skills of Lead Appian Developers and covers the design and development of applications that meet user needs using Appian functionality. It includes designing for consistency, reusability, and collaboration across teams. Emphasis is placed on applying best practices for building multiple, scalable applications in complex environments.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Extending Appian:</b> 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Data Management:</b> 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.</li> </ul>

## Appian Lead Developer Sample Questions (Q30-Q35):

### NEW QUESTION # 30

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

**Answer: A,B**

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 # 31

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

**Answer: C**

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.

References: Appian Documentation - Package Deployment and Troubleshooting, Appian Lead Developer Training - Error Handling and Import/Export.

## NEW QUESTION # 32

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

**Answer: B**

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 # 33

You are planning a strategy around data volume testing for an Appian application that queries and writes to a MySQL database. You have administrator access to the Appian application and to the database. What are two key considerations when designing a data volume testing strategy?

- A. Data model changes must wait until towards the end of the project.
- B. Large datasets must be loaded via Appian processes.
- C. Data from previous tests needs to remain in the testing environment prior to loading prepopulated data.
- **D. Testing with the correct amount of data should be in the definition of done as part of each sprint.**
- **E. The amount of data that needs to be populated should be determined by the project sponsor and the stakeholders based on their estimation.**

**Answer: D,E**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

Data volume testing ensures an Appian application performs efficiently under realistic data loads, especially when interacting with external databases like MySQL. As an Appian Lead Developer with administrative access, the focus is on scalability, performance, and iterative validation. The two key considerations are:

Option C (The amount of data that needs to be populated should be determined by the project sponsor and the stakeholders based on their estimation):

Determining the appropriate data volume is critical to simulate real-world usage. Appian's Performance Testing Best Practices recommend collaborating with stakeholders (e.g., project sponsors, business analysts) to define expected data sizes based on production scenarios. This ensures the test reflects actual requirements-like peak transaction volumes or record counts-rather than arbitrary guesses. For example, if the application will handle 1 million records in production, stakeholders must specify this to guide test data preparation.

Option D (Testing with the correct amount of data should be in the definition of done as part of each sprint):

Appian's Agile Development Guide emphasizes incorporating performance testing (including data volume) into the Definition of Done (DoD) for each sprint. This ensures that features are validated under realistic conditions iteratively, preventing late-stage performance issues. With admin access, you can query/write to MySQL and assess query performance or write latency with the specified data volume, aligning with Appian's recommendation to "test early and often." Option A (Data from previous tests needs to remain in the testing environment prior to loading prepopulated data): This is impractical and risky. Retaining old test data can skew results, introduce inconsistencies, or violate data integrity (e.g., duplicate keys in MySQL). Best practices advocate for a clean, controlled environment with fresh, prepopulated data per test cycle.

Option B (Large datasets must be loaded via Appian processes): While Appian processes can load data, this is not a requirement. With database admin access, you can use SQL scripts or tools like MySQL Workbench for faster, more efficient data population, bypassing Appian process overhead. Appian documentation notes this as a preferred method for large datasets.

Option E (Data model changes must wait until towards the end of the project): Delaying data model changes contradicts Agile principles and Appian's iterative design approach. Changes should occur as needed throughout development to adapt to testing insights, not be deferred.

### NEW QUESTION # 34

Your team has deployed an application to Production with an underperforming view. Unexpectedly, the production data is ten times that of what was tested, and you must remediate the issue. What is the best option you can take to mitigate their performance concerns?

- A. Bypass Appian's query rule by calling the database directly with a SQL statement.
- B. Introduce a data management policy to reduce the volume of data.
- **C. Create a materialized view or table.**
- D. Create a table which is loaded every hour with the latest data.

**Answer: C**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, addressing performance issues in production requires balancing Appian's best practices, scalability, and maintainability. The scenario involves an underperforming view due to a significant increase in data volume (ten times the tested amount), necessitating a solution that optimizes performance while adhering to Appian's architecture. Let's evaluate each option:

A . Bypass Appian's query rule by calling the database directly with a SQL statement:

This approach involves circumventing Appian's query rules (e.g., a!queryEntity) and directly executing SQL against the database.

While this might offer a quick performance boost by avoiding Appian's abstraction layer, it violates Appian's core design principles.

Appian Lead Developer documentation explicitly discourages direct database calls, as they bypass security (e.g., Appian's row-level security), auditing, and portability features. This introduces maintenance risks, dependencies on database-specific logic, and potential production instability-making it an unsustainable and non-recommended solution.

B . Create a table which is loaded every hour with the latest data:

This suggests implementing a staging table updated hourly (e.g., via an Appian process model or ETL process). While this could reduce query load by pre-aggregating data, it introduces latency (data is only fresh hourly), which may not meet real-time requirements typical in Appian applications (e.g., a customer-facing view). Additionally, maintaining an hourly refresh process adds complexity and overhead (e.g., scheduling, monitoring). Appian's documentation favors more efficient, real-time solutions over periodic refreshes unless explicitly required, making this less optimal for immediate performance remediation.

C . Create a materialized view or table:

This is the best choice. A materialized view (or table, depending on the database) pre-computes and stores query results, significantly improving retrieval performance for large datasets. In Appian, you can integrate a materialized view with a Data Store Entity, allowing a!queryEntity to fetch data efficiently without changing application logic. Appian Lead Developer training emphasizes leveraging database optimizations like materialized views to handle large data volumes, as they reduce query execution time while keeping data consistent with the source (via periodic or triggered refreshes, depending on the database). This aligns with Appian's performance optimization guidelines and addresses the tenfold data increase effectively.

D . Introduce a data management policy to reduce the volume of data:

This involves archiving or purging data to shrink the dataset (e.g., moving old records to an archive table). While a long-term data management policy is a good practice (and supported by Appian's Data Fabric principles), it doesn't immediately remediate the performance issue. Reducing data volume requires business approval, policy design, and implementation-delaying resolution. Appian documentation recommends combining such strategies with technical fixes (like C), but as a standalone solution, it's insufficient for urgent production concerns.

Conclusion: Creating a materialized view or table (C) is the best option. It directly mitigates performance by optimizing data retrieval, integrates seamlessly with Appian's Data Store, and scales for large datasets-all while adhering to Appian's recommended practices. The view can be refreshed as needed (e.g., via database triggers or schedules), balancing performance and data freshness. This approach requires collaboration with a DBA to implement but ensures a robust, Appian-supported solution.

Reference:

Appian Documentation: "Performance Best Practices" (Optimizing Data Queries with Materialized Views).

Appian Lead Developer Certification: Application Performance Module (Database Optimization Techniques).

Appian Best Practices: "Working with Large Data Volumes in Appian" (Data Store and Query Performance).

## NEW QUESTION # 35

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