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Appian ACD301 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• Proactively Design for Scalability and Performance: This section of the exam measures skills of Application Performance Engineers and covers building scalable applications and optimizing Appian components for performance. It includes planning load testing, diagnosing performance issues at the application level, and designing systems that can grow efficiently without sacrificing reliability.
Topic 3	• Application Design and Development: 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.
Topic 4	• 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.

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Appian Lead Developer Sample Questions (Q22-Q27):

NEW QUESTION # 22

Your Agile Scrum project requires you to manage two teams, with three developers per team. Both teams are to work on the same application in parallel. How should the work be divided between the teams, avoiding issues caused by cross-dependency?

- A. Allocate stories to each team based on the cumulative years of experience of the team members.
- B. Group epics and stories by technical difficulty, and allocate one team the more challenging stories.
- C. Have each team choose the stories they would like to work on based on personal preference.
- **D. Group epics and stories by feature, and allocate work between each team by feature.**

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

In an Agile Scrum environment with two teams working on the same application in parallel, effective work division is critical to avoid cross-dependency, which can lead to delays, conflicts, and inefficiencies. Appian's Agile Development Best Practices emphasize team autonomy and minimizing dependencies to ensure smooth progress.

Option B (Group epics and stories by feature, and allocate work between each team by feature):

This is the recommended approach. By dividing the application's functionality into distinct features (e.g., Team 1 handles customer management, Team 2 handles campaign tracking), each team can work independently on a specific domain. This reduces cross-dependency because teams are not reliant on each other's deliverables within a sprint. Appian's guidance on multi-team projects suggests feature-based partitioning as a best practice, allowing teams to own their backlog items, design, and testing without frequent coordination. For example, Team 1 can develop and test customer-related interfaces while Team 2 works on campaign processes, merging their work during integration phases.

Option A (Group epics and stories by technical difficulty, and allocate one team the more challenging stories):

This creates an imbalance, potentially overloading one team and underutilizing the other, which can lead to morale issues and uneven progress. It also doesn't address cross-dependency, as challenging stories might still require input from both teams (e.g., shared data models), increasing coordination needs.

Option C (Allocate stories to each team based on the cumulative years of experience of the team members):

Experience-based allocation ignores the project's functional structure and can result in mismatched skills for specific features. It also risks dependencies if experienced team members are needed across teams, complicating parallel work.

Option D (Have each team choose the stories they would like to work on based on personal preference):

This lacks structure and could lead to overlap, duplication, or neglect of critical features. It increases the risk of cross-dependency as teams might select interdependent stories without coordination, undermining parallel development.

Feature-based division aligns with Scrum principles of self-organization and minimizes dependencies, making it the most effective strategy for this scenario.

NEW QUESTION # 23

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. Create a set of stored procedures to handle the volume and the complexity of the expectations, and call it after each integration.**

- B. Use an Appian Process Model, initiated after every integration, to loop on each item and update it to the business requirements.
- C. 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.
- D. Build a complex and optimized view (relevant indices, efficient joins, etc.), and use it every time a user needs to use the data.

Answer: A

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 `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 `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.

References:

- * 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 # 24

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

Answer: D

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.

NEW QUESTION # 25

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

- A. There is no way to fulfill the requirement using Appian. Suggest sending the content as a plain email instead.
- B. Use the PDF from XSL-FO Transformation smart service to generate the content with the specific format.
- 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: B

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.

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 # 26

For each scenario outlined, match the best tool to use to meet expectations. Each tool will be used once Note: To change your responses, you may deselect your response by clicking the blank space at the top of the selection list.

The screenshot shows a certification question interface with four scenarios and a list of smart services. A large diagonal watermark 'dumpcollection.com' is visible across the middle of the interface.

Scenario 1: As a user, if I update an object of type "Customer," the value of the given field should be displayed on the "Company" Record List.
Select a match:

Scenario 2: As a user, if I update an object of type "Customer," a simple data transformation needs to be performed on related objects of the same type (namely, all the customers related to the same company).
Select a match:

Scenario 3: As a user, if I update an object of type "Customer," some complex data transformations need to be performed on related objects of type "Customer," "Company," and "Contract."
Select a match:

Scenario 4: As a user, if I update an object of type "Customer," some simple data transformations need to be performed on related objects of type "Company," "Address," and "Contract."
Select a match:

Smart Services List:

- Write to Data Store Entity smart service
- Database Stored Procedure
- Database Trigger
- Database Complex View

The Appian logo is visible in the bottom right corner of the interface.

Answer:

Explanation:

As a user, if I update an object of type "Customer," the value of the given field should be displayed on the "Company" Record List.

Select a match:

Write to Data Store Entity smart service
Database Stored Procedure
Database Trigger
Database Complex View

As a user, if I update an object of type "Customer," a simple data transformation needs to be performed on related objects of the same type (namely, all the customers related to the same company).

Select a match:

Write to Data Store Entity smart service
Database Stored Procedure
Database Trigger
Database Complex View

As a user, if I update an object of type "Customer," some complex data transformations need to be performed on related objects of type "Customer," "Company," and "Contract."

Select a match:

Write to Data Store Entity smart service
Database Stored Procedure
Database Trigger
Database Complex View

As a user, if I update an object of type "Customer," some simple data transformations need to be performed on related objects of type "Company," "Address," and "Contract."

Select a match:

Write to Data Store Entity smart service
Database Stored Procedure
Database Trigger
Database Complex View

Explanation:

* As a user, if I update an object of type "Customer", the value of the given field should be displayed on the "Company" Record List. # Database Complex View

* As a user, if I update an object of type "Customer", a simple data transformation needs to be performed on related objects of the same type (namely, all the customers related to the same company). # Database Trigger

* As a user, if I update an object of type "Customer", some complex data transformations need to be performed on related objects of type "Customer", "Company", and "Contract". # Database Stored Procedure

* As a user, if I update an object of type "Customer", some simple data transformations need to be performed on related objects of type "Company", "Address", and "Contract". # Write to Data Store Entity smart service Comprehensive and Detailed In-Depth Explanation: Appian integrates with external databases to handle data updates and transformations, offering various tools depending on the complexity and context of the task.

The scenarios involve updating a "Customer" object and triggering actions on related data, requiring careful selection of the best tool. Appian's Data Integration and Database Management documentation guides these decisions.

* As a user, if I update an object of type "Customer", the value of the given field should be displayed on the "Company" Record List # Database Complex View: This scenario requires displaying updated customer data on a "Company" Record List, implying a read-only operation to join or aggregate data across tables. A Database Complex View (e.g., a SQL view combining "Customer" and "Company" tables) is ideal for this. Appian supports complex views to predefine queries that can be used in Record Lists, ensuring the updated field value is reflected without additional processing. This tool is best for read operations and does not involve write logic.

* As a user, if I update an object of type "Customer", a simple data transformation needs to be performed on related objects of the same type (namely, all the customers related to the same company) # Database Trigger: This involves a simple transformation (e.g., updating a flag or counter) on related "Customer" records after an update. A Database Trigger, executed automatically on the database side when a "Customer" record is modified, is the best fit. It can perform lightweight SQL updates on related records (e.g., via a company ID join) without Appian process overhead. Appian recommends triggers for simple, database-level automation, especially when transformations are confined to the same table type.

* As a user, if I update an object of type "Customer", some complex data transformations need to be performed on related objects of type "Customer", "Company", and "Contract" # Database Stored Procedure: This scenario involves complex transformations across multiple related object types, suggesting multi-step logic (e.g., recalculating totals or updating multiple tables). A Database Stored Procedure allows you to encapsulate this logic in SQL, callable from Appian, offering flexibility for complex operations.

Appian supports stored procedures for scenarios requiring transactional integrity and intricate data manipulation across tables, making it the best choice here.

* As a user, if I update an object of type "Customer", some simple data transformations need to be performed on related objects of type "Company", "Address", and "Contract" # Write to Data Store Entity smart service: This requires simple transformations on related objects, which can be handled within Appian's process model. The "Write to Data Store Entity" smart service allows you to update multiple related entities (e.g., "Company", "Address", "Contract") based on the "Customer" update, using Appian's expression rules for logic. This approach leverages Appian's process automation, is user-friendly for developers, and is recommended for straightforward updates within the Appian environment.

Matching Rationale:

* Each tool is used once, covering the spectrum of database integration options: Database Complex View for read/display, Database Trigger for simple database-side automation, Database Stored Procedure for complex multi-table logic, and Write to Data Store Entity smart service for Appian-managed simple updates.

* Appian's guidelines prioritize using the right tool based on complexity and context, ensuring efficiency and maintainability.

References: Appian Documentation - Data Integration and Database Management, Appian Process Model Guide - Smart Services, Appian Lead Developer Training - Database Optimization.

NEW QUESTION # 27

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