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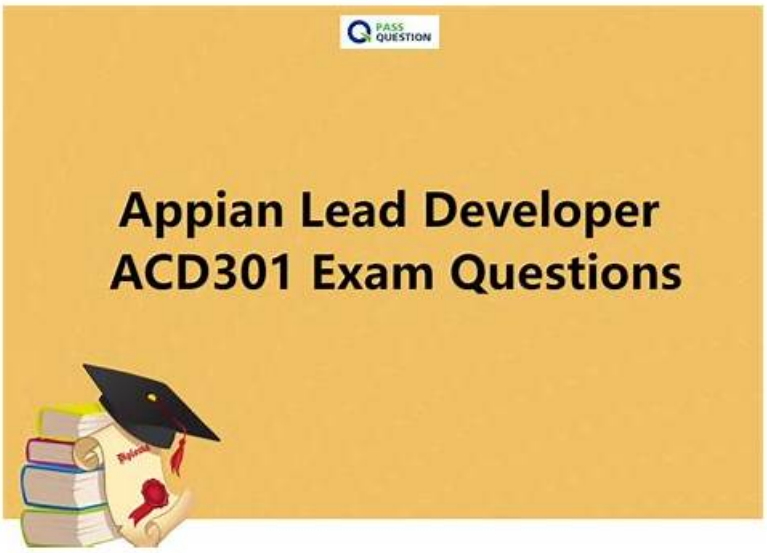

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Appian ACD301 Exam Syllabus Topics:

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	• 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 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.
Topic 4	• 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.

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Appian Lead Developer Sample Questions (Q43-Q48):

NEW QUESTION # 43
You add an index on the searched field of a MySQL table with many rows (>100k). The field would benefit greatly from the index in which three scenarios?

- A. The field contains many datetimes, covering a large range.
- B. The field contains a structured JSON.
- C. The field contains a textual short business code.
- D. The field contains big integers, above and below 0.
- E. The field contains long unstructured text such as a hash.

Answer: A,C,D

Explanation:
Comprehensive and Detailed In-Depth Explanation:Adding an index to a searched field in a MySQL table with over 100,000 rows improves query performance by reducing the number of rows scanned during searches, joins, or filters. The benefit of an index depends on the field's data type, cardinality (uniqueness), and query patterns. MySQL indexingbest practices, as aligned with Appian's Database Optimization Guidelines, highlight scenarios where indices are most effective.
* Option A (The field contains a textual short business code):This benefits greatly from an index. A short business code (e.g., a 5-10 character identifier like "CUST123") typically has high cardinality (many unique values) and is often used in WHERE clauses or joins. An index on this field speeds up exact-match queries (e.g., WHERE business_code = 'CUST123'), which are common in Appian applications for lookups or filtering.
* Option C (The field contains many datetimes, covering a large range):This is highly beneficial.
Datetime fields with a wide range (e.g., transaction timestamps over years) are frequently queried with range conditions (e.g., WHERE datetime BETWEEN '2024-01-01' AND '2025-01-01') or sorting (e.g., ORDER BY datetime). An index on this field optimizes these operations, especially in large tables, aligning with Appian's recommendation to index time-based fields for performance.
* Option D (The field contains big integers, above and below 0):This benefits significantly. Big integers (e.g., IDs or quantities) with a broad range and high cardinality are ideal for indexing. Queries like WHERE id > 1000 or WHERE quantity < 0 leverage the index for efficient range scans or equality checks, a common pattern in Appian data store queries.
* Option B (The field contains long unstructured text such as a hash):This benefits less. Long unstructured text (e.g., a 128-character SHA hash) has high cardinality but is less efficient for indexing due to its size. MySQL indices on large text fields can slow down writes and consume significant storage, and full-text searches are better handled with specialized indices (e.g., FULLTEXT), not standard B-tree indices. Appian advises caution with indexing large text fields unless necessary.
* Option E (The field contains a structured JSON):This is minimally beneficial with a standard index.
MySQL supports JSON fields, but a regular index on the entire JSON column is inefficient for large datasets (>100k rows) due to its variable structure. Generated columns or specialized JSON indices (e.
g., using JSON_EXTRACT) are required for targeted queries (e.g., WHERE JSON_EXTRACT (json_col, '$.key') = 'value'), but this requires additional setup beyond a simple index, reducing its immediate benefit.
For a table with over 100,000 rows, indices are most effective on fields with high selectivity and frequent query usage (e.g., short codes, datetimes, integers), making A, C, and D the optimal scenarios.
References:Appian Documentation - Database Optimization Guidelines, MySQL Documentation - Indexing Strategies, Appian Lead Developer Training - Performance Tuning.

NEW QUESTION # 44
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 server where Appian is installed.

- B. The default time zone for the environment as specified in the Administration Console.
- C. The time zone of the user who is completing the input task.
- D. The time zone of the user who most recently published the process model.

Answer: B

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 # 45
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. Have each team choose the stories they would like to work on based on personal preference.
- B. Group epics and stories by technical difficulty, and allocate one team the more challenging stories.
- C. Group epics and stories by feature, and allocate work between each team by feature.
- D. Allocate stories to each team based on the cumulative years of experience of the team members.

Answer: C

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.
References:Appian Documentation - Agile Development with Appian, Scrum Guide - Multi-Team Coordination, Appian Lead Developer Training - Team Management Strategies.

NEW QUESTION # 46
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.queryParameters.username
- B. httpRequest.queryParameters.users.username
- C. httpRequest.users.username
- D. httpRequest.formData.username

Answer: A

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.
References:Appian Documentation - Web API Development, Appian Expression Language Reference - httpRequest Object.

NEW QUESTION # 47
You need to connect Appian with LinkedIn to retrieve personal information about the users in your application. This information is considered private, and users should allow Appian to retrieve their information. Which authentication method would you recommend to fulfill this request?

- A. Basic Authentication with user's login information
- B. Basic Authentication with dedicated account's login information
- C. API Key Authentication
- D. OAuth 2.0: Authorization Code Grant

Answer: D

NEW QUESTION # 48
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