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Appian ACD201 Exam Syllabus Topics:

Topic	Details
Topic 1	• Data Management: This section of the exam measures the skills of Solution Architects and covers designing and documenting data models, recommending record types for optimization and security, working with relational data, and implementing complex models with supporting objects.
Topic 2	• Performance and Scalability: This section of the exam measures the skills of Appian Developers and covers designing performant components, building memory-efficient models, conducting database load and automated testing, analyzing server memory and logs for risks, and resolving performance concerns for end users.
Topic 3	• Application Design and Development: This section of the exam measures the skills of Appian Developers and covers translating business requirements into user stories, building end-to-end applications, managing object security, applying design best practices, and ensuring user-centric experiences through proper UX design.
Topic 4	• Advanced Appian Concepts: This section of the exam measures the skills of Solution Architects and covers creating and configuring authentication methods, setting up integration objects, designing APIs, evaluating smart services and plug-ins, and applying SSO mechanisms with SAML and LDAP.

Appian Senior Developer Sample Questions (Q11-Q16):

NEW QUESTION # 11

What are three ways to optimize the memory usage of a process model? (Choose three.)

- A. Decrease the number of process variables.
- **B. Configure process variables as parameters.**
- C. Minimize the use of subprocesses in the model.
- **D. Avoid storing large blocks of text in process variables.**
- E. Divide large nodes into multiple smaller nodes.
- **F. Pass data directly to activity nodes and smart services.**

Answer: B,D,F

Explanation:

Passing data directly to activity nodes and smart services reduces unnecessary use of process variables, optimizing memory.

Configuring process variables as parameters limits their lifespan and persistence, saving memory.

Avoiding large blocks of text in process variables minimizes memory consumption within the process model.

NEW QUESTION # 12

You need to implement a field-level audit functionality on the application data, and then display a log of the changes made over time to the users.

What should you do?

- A. Create utility process model(s) to insert new version of the modified data for the same record into the transaction tables on modification.
- B. Create Audit table(s) and create stored procedures on each transaction table to compare and save the modified data.
- **C. Create Audit table(s) and create triggers on each transaction table to record modifications into the Audit table.**

Answer: C

Explanation:

Creating audit tables and using triggers on each transaction table ensures that all field-level changes are automatically recorded at the database level, providing a reliable and consistent audit log for display to users.

NEW QUESTION # 13

You're designing a file upload process that integrates with an external document management system. Part of this process is to develop a start form with a file upload component, so that the user can upload multiple files. The business has requested that the maximum file size that can be uploaded through this process is 1GB. Additionally, you're aware that the integration's API can accept files with a maximum file size of 3GB, but recommends no larger than 1GB. Can the process be more performant without straining the application or integration?

- A. Yes. Request the business reconsiders its requirements and find manual workarounds as it is not recommended to upload files of this size in both Appian and the integration.
- **B. Yes. Request the business allows for these files to be uploaded as an overnight process by storing large files in a staging table, so that adequate resources are available.**
- C. No. The file upload component is capable of accepting 1 GB files and the integration can handle this.

Answer: B

Explanation:

While Appian and the integration technically support 1 GB file uploads, handling such large files during interactive sessions can negatively impact application performance, user experience, and resource utilization.

A better approach is to request that the business allow these files to be uploaded asynchronously (e.g., overnight batch process), by temporarily storing them (e.g., in a staging table or folder) and processing them when system load is lower. This makes the process more performant and reliable without straining Appian or the external system.

NEW QUESTION # 14

You need to create a process workflow for employee background investigations. This workflow takes an average of six months from start to completion. There are multiple phases to the background investigation which must be completed by people in different departments. Each department is responsible for inputting a large amount of data as part of the workflow.

There is an emphasis on process memory management since thousands of these investigations will happen concurrently.

What are two best practices that you should employ when designing this process workflow? (Choose two.)

- **A. Divide the workflow into multiple process models so that each process can be short-lived and consume less memory.**
- B. Ensure that the data management policy is set to archive the process instances after a minimum of six months, so that data is available throughout the workflow.
- C. Combine all stages of the workflow into a single process model, so that data can be efficiently shared between nodes using process variables.
- **D. Utilize a record-backed design throughout the workflow where data entered by users is saved to and queried from the database.**

Answer: A,D

Explanation:

Using a record-backed design ensures data is persisted in the database, not held in memory, optimizing process memory management.

Dividing the workflow into multiple process models allows each to be short-lived, further reducing memory usage and improving scalability.

NEW QUESTION # 15

You're configuring Health Check settings under the Admin Console.

Which section would you find the setting to indicate that the Health Check will run on a Production Environment?

- A. General
- **B. Automatic Upload**
- C. Scheduling

Answer: B

Explanation:

The Automatic Upload section in the Health Check settings of the Admin Console includes the option to indicate that the Health Check is running on a Production Environment, which helps Appian appropriately analyze and benchmark the data.

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