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Appian Lead Developer Sample Questions (Q10-Q15):

NEW QUESTION # 10

The business database for a large, complex Appian application is to undergo a migration between database technologies, as well as interface and process changes. The project manager asks you to recommend a test strategy. Given the changes, which two items should be included in the test strategy?

- A. Internationalization testing of the Appian platform
- B. Penetration testing of the Appian platform
- C. Tests for each of the interfaces and process changes
- D. A regression test of all existing system functionality
- E. Tests that ensure users can still successfully log into the platform

Answer: C,D

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, recommending a test strategy for a large, complex application undergoing a database migration (e.g., from Oracle to PostgreSQL) and interface/process changes requires focusing on ensuring system stability, functionality, and the specific updates. The strategy must address risks tied to the scope-database technology shift, interface modifications, and process updates-while aligning with Appian's testing best practices. Let's evaluate each option:

A . Internationalization testing of the Appian platform:

Internationalization testing verifies that the application supports multiple languages, locales, and formats (e.g., date formats). While valuable for global applications, the scenario doesn't indicate a change in localization requirements tied to the database migration, interfaces, or processes. Appian's platform handles internationalization natively (e.g., via locale settings), and this isn't impacted by database technology or UI/process changes unless explicitly stated. This is out of scope for the given context and not a priority.

B . A regression test of all existing system functionality:

This is a critical inclusion. A database migration between technologies can affect data integrity, queries (e.g., a!queryEntity), and performance due to differences in SQL dialects, indexing, or drivers. Regression testing ensures that all existing functionality-records, reports, processes, and integrations-works as expected post-migration. Appian Lead Developer documentation mandates regression testing for significant infrastructure changes like this, as unmapped edge cases (e.g., datatype mismatches) could break the application. Given the "large, complex" nature, full-system validation is essential to catch unintended impacts.

C . Penetration testing of the Appian platform:

Penetration testing assesses security vulnerabilities (e.g., injection attacks). While security is important, the changes described-database migration, interface, and process updates-don't inherently alter Appian's security model (e.g., authentication, encryption), which is managed at the platform level. Appian's cloud or on-premise security isn't directly tied to database technology unless new vulnerabilities are introduced (not indicated here). This is a periodic concern, not specific to this migration, making it less relevant than functional validation.

D . Tests for each of the interfaces and process changes:

This is also essential. The project includes explicit "interface and process changes" alongside the migration. Interface updates (e.g., SAIL forms) might rely on new data structures or queries, while process changes (e.g., modified process models) could involve updated nodes or logic. Testing each change ensures these components function correctly with the new database and meet business requirements. Appian's testing guidelines emphasize targeted validation of modified components to confirm they integrate with the migrated data layer, making this a primary focus of the strategy.

E . Tests that ensure users can still successfully log into the platform:

Login testing verifies authentication (e.g., SSO, LDAP), typically managed by Appian's security layer, not the business database. A database migration affects application data, not user authentication, unless the database stores user credentials (uncommon in Appian, which uses separate identity management). While a quick sanity check, it's narrow and subsumed by broader regression testing (B), making it redundant as a standalone item.

Conclusion: The two key items are B (regression test of all existing system functionality) and D (tests for each of the interfaces and process changes). Regression testing (B) ensures the database migration doesn't disrupt the entire application, while targeted testing (D) validates the specific interface and process updates. Together, they cover the full scope-existing stability and new functionality-aligning with Appian's recommended approach for complex migrations and modifications.

Reference:

Appian Documentation: "Testing Best Practices" (Regression and Component Testing).

Appian Lead Developer Certification: Application Maintenance Module (Database Migration Strategies).

Appian Best Practices: "Managing Large-Scale Changes in Appian" (Test Planning).

NEW QUESTION # 11

Your client's customer management application is finally released to Production. After a few weeks of small enhancements and patches, the client is ready to build their next application. The new application will leverage customer information from the first application to allow the client to launch targeted campaigns for select customers in order to increase sales. As part of the first application, your team had built a section to display key customer information such as their name, address, phone number, how long they have been a customer, etc. A similar section will be needed on the campaign record you are building. One of your developers shows you the new object they are working on for the new application and asks you to review it as they are running into a few issues. What feedback should you give?

- A. Create a duplicate version of that section designed for the campaign record.
- B. Point the developer to the relevant areas in the documentation or Appian Community where they can find more information on the issues they are running into.
- C. Provide guidance to the developer on how to address the issues so that they can proceed with their work.
- **D. Ask the developer to convert the original customer section into a shared object so it can be used by the new application.**

Answer: D

Explanation:

Comprehensive and Detailed In-Depth Explanation: The scenario involves reusing a customer information section from an existing application in a new application for campaign management, with the developer encountering issues. Appian's best practices emphasize reusability, efficiency, and maintainability, especially when leveraging existing components across applications.

* Option B (Ask the developer to convert the original customer section into a shared object so it can be used by the new application): This is the recommended approach. Converting the original section into a shared object (e.g., a reusable interface component) allows it to be accessed across applications without duplication. Appian's Design Guide highlights the use of shared components to promote consistency, reduce redundancy, and simplify maintenance. Since the new application requires similar customer data (name, address, etc.), reusing the existing section—after ensuring it is modular and adaptable—addresses the developer's issues while aligning with the client's goal of leveraging prior work. The developer can then adjust the shared object (e.g., via parameters) to fit the campaign context, resolving their issues collaboratively.

* Option A (Provide guidance to the developer on how to address the issues so that they can proceed with their work): While providing guidance is valuable, it doesn't address the root opportunity to reuse existing code. This option focuses on fixing the new object in isolation, potentially leading to duplicated effort if the original section could be reused instead.

* Option C (Point the developer to the relevant areas in the documentation or Appian Community where they can find more information on the issues they are running into): This is a passive approach and delays resolution. As a Lead Developer, offering direct support or a strategic solution (like reusing components) is more effective than redirecting the developer to external resources without context.

* Option D (Create a duplicate version of that section designed for the campaign record):

Duplication violates Appian's principle of DRY (Don't Repeat Yourself) and increases maintenance overhead. Any future updates to customer data display logic would need to be applied to multiple objects, risking inconsistencies.

Given the need to leverage existing customer information and the developer's issues, converting the section to a shared object is the most efficient and scalable solution.

References: Appian Design Guide - Reusability and Shared Components, Appian Lead Developer Training - Application Design and Maintenance.

NEW QUESTION # 12

As part of an upcoming release of an application, a new nullable field is added to a table that contains customer data. The new field is used by a report in the upcoming release and is calculated using data from another table.

Which two actions should you consider when creating the script to add the new field?

- A. Create a script that adds the field and leaves it null.
- B. Add a view that joins the customer data to the data used in calculation.
- C. Create a rollback script that clears the data from the field.
- **D. Create a script that adds the field and then populates it.**
- **E. Create a rollback script that removes the field.**

Answer: D,E

Explanation:

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, adding a new nullable field to a database table for an upcoming release requires careful planning to ensure data integrity, report functionality, and rollback capability. The field is used in a report and calculated from another table, so the script must handle both deployment and potential reversibility. Let's evaluate each option:

A. Create a script that adds the field and leaves it null:

Adding a nullable field and leaving it null is technically feasible (e.g., using ALTER TABLE ADD COLUMN in SQL), but it doesn't address the report's need for calculated data. Since the field is used in a report and calculated from another table, leaving it null risks incomplete or incorrect reporting until populated, delaying functionality. Appian's data management best practices recommend populating data during deployment for immediate usability, making this insufficient as a standalone action.

B. Create a rollback script that removes the field:

This is a critical action. In Appian, database changes (e.g., adding a field) must be reversible in case of deployment failure or rollback needs (e.g., during testing or PROD issues). A rollback script that removes the field (e.g., ALTER TABLE DROP

COLUMN) ensures the database can return to its original state, minimizing risk. Appian's deployment guidelines emphasize rollback scripts for schema changes, making this essential for safe releases.

C . Create a script that adds the field and then populates it:

This is also essential. Since the field is nullable, calculated from another table, and used in a report, populating it during deployment ensures immediate functionality. The script can use SQL (e.g., UPDATE table SET new_field = (SELECT calculated_value FROM other_table WHERE condition)) to populate data, aligning with Appian's data fabric principles for maintaining data consistency. Appian's documentation recommends populating new fields during deployment for reporting accuracy, making this a key action.

D . Create a rollback script that clears the data from the field:

Clearing data (e.g., UPDATE table SET new_field = NULL) is less effective than removing the field entirely. If the deployment fails, the field's existence with null values could confuse reports or processes, requiring additional cleanup. Appian's rollback strategies favor reverting schema changes completely (removing the field) rather than leaving it with nulls, making this less reliable and unnecessary compared to B.

E . Add a view that joins the customer data to the data used in calculation:

Creating a view (e.g., CREATE VIEW customer_report AS SELECT ... FROM customer_table JOIN other_table ON ...) is useful for reporting but isn't a prerequisite for adding the field. The scenario focuses on the field addition and population, not reporting structure. While a view could optimize queries, it's a secondary step, not a primary action for the script itself. Appian's data modeling best practices suggest views as post-deployment optimizations, not script requirements.

Conclusion: The two actions to consider are B (create a rollback script that removes the field) and C (create a script that adds the field and then populates it). These ensure the field is added with data for immediate report usability and provide a safe rollback option, aligning with Appian's deployment and data management standards for schema changes.

Reference:

Appian Documentation: "Database Schema Changes" (Adding Fields and Rollback Scripts).

Appian Lead Developer Certification: Data Management Module (Schema Deployment Strategies).

Appian Best Practices: "Managing Data Changes in Production" (Populating and Rolling Back Fields).

NEW QUESTION # 13

You need to export data using an out-of-the-box Appian smart service. Which two formats are available (or data generation)?

- A. XML
- B. JSDN
- C. Excel
- D. CSV

Answer: C,D

Explanation:

The two formats that are available for data generation using an out-of-the-box Appian smart service are:

A . CSV. This is a comma-separated values format that can be used to export data in a tabular form, such as records, reports, or grids. CSV files can be easily opened and manipulated by spreadsheet applications such as Excel or Google Sheets.

C . Excel. This is a format that can be used to export data in a spreadsheet form, with multiple worksheets, formatting, formulas, charts, and other features. Excel files can be opened by Excel or other compatible applications.

The other options are incorrect for the following reasons:

B . XML. This is a format that can be used to export data in a hierarchical form, using tags and attributes to define the structure and content of the data. XML files can be opened by text editors or XML parsers, but they are not supported by the out-of-the-box Appian smart service for data generation.

D . JSON. This is a format that can be used to export data in a structured form, using objects and arrays to represent the data. JSON files can be opened by text editors or JSON parsers, but they are not supported by the out-of-the-box Appian smart service for data generation. Verified Reference: Appian Documentation, section "Write to Data Store Entity" and "Write to Multiple Data Store Entities".

NEW QUESTION # 14

You are asked to design a case management system for a client. In addition to storing some basic metadata about a case, one of the client's requirements is the ability for users to update a case. The client would like any user in their organization of 500 people to be able to make these updates. The users are all based in the company's headquarters, and there will be frequent cases where users are attempting to edit the same case.

The client wants to ensure no information is lost when these edits occur and does not want the solution to burden their process administrators with any additional effort. Which data locking approach should you recommend?

- A. Design a process report and query to determine who opened the edit form first.
- B. Allow edits without locking the case CDI.
- C. Add an @Version annotation to the case CDT to manage the locking.
- D. Use the database to implement low-level pessimistic locking.

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation: The requirement involves a case management system where 500 users may simultaneously edit the same case, with a need to prevent data loss and minimize administrative overhead. Appian's data management and concurrency control strategies are critical here, especially when integrating with an underlying database.

* Option C (Add an @Version annotation to the case CDT to manage the locking): This is the recommended approach. In Appian, the @Version annotation on a Custom Data Type (CDT) enables optimistic locking, a lightweight concurrency control mechanism. When a user updates a case, Appian checks the version number of the CDT instance. If another user has modified it in the meantime, the update fails, prompting the user to refresh and reapply changes. This prevents data loss without requiring manual intervention by process administrators. Appian's Data Design Guide recommends

@Version for scenarios with high concurrency (e.g., 500 users) and frequent edits, as it leverages the database's native versioning (e.g., in MySQL or PostgreSQL) and integrates seamlessly with Appian's process models. This aligns with the client's no-burden requirement.

* Option A (Allow edits without locking the case CDI): This is risky. Without locking, simultaneous edits could overwrite each other, leading to data loss—a direct violation of the client's requirement.

Appian does not recommend this for collaborative environments.

* Option B (Use the database to implement low-level pessimistic locking): Pessimistic locking (e.g., using SELECT ... FOR UPDATE in MySQL) locks the record during the edit process, preventing other users from modifying it until the lock is released. While effective, it can lead to deadlocks or performance bottlenecks with 500 users, especially if edits are frequent. Additionally, managing this at the database level requires custom SQL and increases administrative effort (e.g., monitoring locks), which the client wants to avoid. Appian prefers higher-level solutions like @Version over low-level database locking.

* Option D (Design a process report and query to determine who opened the edit form first): This is impractical and inefficient. Building a custom report and query to track form opens adds complexity and administrative overhead. It doesn't inherently prevent data loss and relies on manual resolution, conflicting with the client's requirements.

The @Version annotation provides a robust, Appian-native solution that balances concurrency, data integrity, and ease of maintenance, making it the best fit.

References: Appian Documentation - Data Types and Concurrency Control, Appian Data Design Guide - Optimistic Locking with @Version, Appian Lead Developer Training - Case Management Design.

NEW QUESTION # 15

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