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Appian Lead Developer Sample Questions (Q27-Q32):

NEW QUESTION # 27
You are the lead developer for an Appian project, in a backlog refinement meeting. You are presented with the following user story: "As a restaurant customer, I need to be able to place my food order online to avoid waiting in line for takeout." Which two functional acceptance criteria would you consider 'good'?

- A. The user will click Save, and the order information will be saved in the ORDER table and have audit history.
- B. The user cannot submit the form without filling out all required fields.
- C. The user will receive an email notification when their order is completed.
- D. The system must handle up to 500 unique orders per day.

Answer: A,B

Explanation:
Comprehensive and Detailed In-Depth Explanation:As an Appian Lead Developer, defining "good" functional acceptance criteria for a user story requires ensuring they are specific, testable, and directly tied to the user's need (placing an online food order to avoid waiting in line). Good criteria focus on functionality, usability, and reliability, aligning with Appian's Agile and design best practices.
Let's evaluate each option:
* A. The user will click Save, and the order information will be saved in the ORDER table and have audit history:This is a "good" criterion. It directly validates the core functionality of the user story-placing an order online. Saving order data in the ORDER table (likely via a process model or Data Store Entity) ensures persistence, and audit history (e.g., using Appian's audit logs or database triggers) tracks changes, supporting traceability and compliance. This is specific, testable (e.g., verify data in the table and logs), and essential for the user's goal, aligning with Appian's data management and user experience guidelines.
* B. The user will receive an email notification when their order is completed:While useful, this is a "nice-to-have" enhancement, not a core requirement of the user story. The story focuses on placing an order online to avoid waiting, not on completion notifications. Email notifications add value but aren't essential for validating the primary functionality. Appian's user story best practices prioritize criteria tied to the main user need, making this secondary and not "good" in this context.
* C. The system must handle up to 500 unique orders per day:This is a non-functional requirement (performance/scalability), not a functional acceptance criterion. It describes system capacity, not specific user behavior or functionality. While important for design, it's not directly testable for the user story's outcome (placing an order) and isn't tied to the user's experience. Appian's Agile methodologies separate functional and non-functional requirements, making this less relevant as a "good" criterion here.
* D. The user cannot submit the form without filling out all required fields:This is a "good" criterion. It ensures data integrity and usability by preventing incomplete orders, directly supporting the user's ability to place a valid online order. In Appian, this can be implemented using form validation (e.g., required attributes in SAIL interfaces or process model validations), making it specific, testable (e.g., verify form submission fails with missing fields), and critical for a reliable user experience. This aligns with Appian's UI design and user story validation standards.
Conclusion: The two "good" functional acceptance criteria are A (order saved with audit history) and D (required fields enforced). These directly validate the user story's functionality (placing a valid order online), are testable, and ensure a reliable, user-friendly experience-aligning with Appian's Agile and design best practices for user stories.
References:
* Appian Documentation: "Writing Effective User Stories and Acceptance Criteria" (Functional Requirements).
* Appian Lead Developer Certification: Agile Development Module (Acceptance Criteria Best Practices).
* Appian Best Practices: "Designing User Interfaces in Appian" (Form Validation and Data Persistence).

NEW QUESTION # 28
An existing integration is implemented in Appian. Its role is to send data for the main case and its related objects in a complex JSON to a REST API, to insert new information into an existing application. This integration was working well for a while. However, the customer highlighted one specific scenario where the integration failed in Production, and the API responded with a 500 Internal Error code. The project is in Post- Production Maintenance, and the customer needs your assistance. Which three steps should you take to troubleshoot the issue?

- A. Obtain the JSON sent to the API and validate that there is no difference between the expected JSON format and the sent one.
- B. Analyze the behavior of subsequent calls to the Production API to ensure there is no global issue, and ask the customer to

analyze the API logs to understand the nature of the issue.

- C. Ensure there were no network issues when the integration was sent.
- D. Send the same payload to the test API to ensure the issue is not related to the API environment.
- E. Send a test case to the Production API to ensure the service is still up and running.

Answer: A,B,D

Explanation:
Comprehensive and Detailed In-Depth Explanation:As an Appian Lead Developer in a Post-Production Maintenance phase, troubleshooting a failed integration (HTTP 500 Internal Server Error) requires a systematic approach to isolate the root cause-whether it's Appian-side, API-side, or environmental. A 500 error typically indicates an issue on the server (API) side, but the developer must confirm Appian's contribution and collaborate with the customer. The goal is to select three steps that efficiently diagnose the specific scenario while adhering to Appian's best practices. Let's evaluate each option:
* A. Send the same payload to the test API to ensure the issue is not related to the API environment:This is a critical step. Replicating the failure by sending the exact payload (from the failed Production call) to a test API environment helps determine if the issue is environment-specific (e.g., Production-only configuration) or inherent to the payload/API logic. Appian's Integration troubleshooting guidelines recommend testing in a non-Production environment first to isolate variables. If the test API succeeds, the Production environment or API state is implicated; if it fails, the payload or API logic is suspect.
This step leverages Appian's Integration object logging (e.g., request/response capture) and is a standard diagnostic practice.
* B. Send a test case to the Production API to ensure the service is still up and running:While verifying Production API availability is useful, sending an arbitrary test case risks further Production disruption during maintenance and may not replicate the specific scenario. A generic test might succeed (e.g., with simpler data), masking the issue tied to the complex JSON. Appian's Post-Production guidelines discourage unnecessary Production interactions unless replicating the exact failure is controlled and justified. This step is less precise than analyzing existing behavior (C) and is not among the top three priorities.
* C. Analyze the behavior of subsequent calls to the Production API to ensure there is no global issue, and ask the customer to analyze the API logs to understand the nature of the issue:This is essential.
Reviewing subsequent Production calls (via Appian's Integration logs or monitoring tools) checks if the
500 error is isolated or systemic (e.g., API outage). Since Appiancan't access API server logs, collaborating with the customer to review their logs is critical for a 500 error, which often stems from server-side exceptions (e.g., unhandled data). Appian Lead Developer training emphasizes partnership with API owners and using Appian's Process History or Application Monitoring to correlate failures- making this a key troubleshooting step.
* D. Obtain the JSON sent to the API and validate that there is no difference between the expected JSON format and the sent one:This is a foundational step. The complex JSON payload is central to the integration, and a 500 error could result from malformed data (e.g., missing fields, invalid types) that the API can't process. In Appian, you can retrieve the sent JSON from the Integration object's execution logs (if enabled) or Process Instance details. Comparing it against the API's documented schema (e.g., via Postman or API specs) ensures Appian's output aligns with expectations. Appian's documentation stresses validating payloads as a first-line check for integration failures, especially in specific scenarios.
* E. Ensure there were no network issues when the integration was sent:While network issues (e.g., timeouts, DNS failures) can cause integration errors, a 500 Internal Server Error indicates the request reached the API and triggered a server-side failure-not a network issue (which typically yields 503 or timeout errors). Appian's Connected System logs can confirm HTTP status codes, and network checks (e.g., via IT teams) are secondary unless connectivity is suspected. This step is less relevant to the 500 error and lower priority than A, C, and D.
Conclusion: The three best steps are A (test API with same payload), C (analyze subsequent calls and customer logs), and D (validate JSON payload). These steps systematically isolate the issue-testing Appian' s output (D), ruling out environment-specific problems (A), and leveraging customer insights into the API failure (C). This aligns with Appian's Post-Production Maintenance strategies: replicate safely, analyze logs, and validate data.
References:
* Appian Documentation: "Troubleshooting Integrations" (Integration Object Logging and Debugging).
* Appian Lead Developer Certification: Integration Module (Post-Production Troubleshooting).
* Appian Best Practices: "Handling REST API Errors in Appian" (500 Error Diagnostics).

NEW QUESTION # 29
You are just starting with a new team that has been working together on an application for months. They ask you to review some of their views that have been degrading in performance. The views are highly complex with hundreds of lines of SQL. What is the first step in troubleshooting the degradation?

- A. Run an explain statement on the views, identify critical areas of improvement that can be remediated without business knowledge.
- B. Browse through the tables, note any tables that contain a large volume of null values, and work with your team to plan for table restructure.

- C. Go through the entire database structure to obtain an overview, ensure you understand the business needs, and then normalize the tables to optimize performance.
- D. Go through all of the tables one by one to identify which of the grouped by, ordered by, or joined keys are currently indexed.

Answer: A

Explanation:
Comprehensive and Detailed In-Depth Explanation:Troubleshooting performance degradation in complex SQL views within an Appian application requires a systematic approach. The views, described as having hundreds of lines of SQL, suggest potential issues with query execution, indexing, or join efficiency. As a new team member, the first step should focus on quickly identifying the root cause without overhauling the system prematurely. Appian's Performance Troubleshooting Guide and database optimization best practices provide the framework for this process.
* Option B (Run an explain statement on the views, identify critical areas of improvement that can be remediated without business knowledge):This is the recommended first step. Running an EXPLAIN statement (or equivalent, such as EXPLAIN PLAN in some databases) analyzes the query execution plan, revealing details like full table scans, missing indices, or inefficient joins. This technical analysis can identify immediate optimization opportunities (e.g., adding indices or rewriting subqueries) without requiring business input, allowing you to address low-hanging fruit quickly. Appian encourages using database tools to diagnose performance issues before involving stakeholders, making this a practical starting point as you familiarize yourself with the application.
* Option A (Go through the entire database structure to obtain an overview, ensure you understand the business needs, and then normalize the tables to optimize performance):This is too broad and time-consuming as a first step. Understanding business needs and normalizing tables are valuable but require collaboration with the team and stakeholders, delaying action. It's better suited for a later phase after initial technical analysis.
* Option C (Go through all of the tables one by one to identify which of the grouped by, ordered by, or joined keys are currently indexed):Manually checking indices is useful but inefficient without first knowing which queries are problematic. The EXPLAIN statement provides targeted insights into index usage, making it a more direct initial step than a manual table-by-table review.
* Option D (Browse through the tables, note any tables that contain a large volume of null values, and work with your team to plan for table restructure):Identifying null values and planning restructures is a long-term optimization strategy, not a first step. It requires team input and may not address the immediate performance degradation, which is better tackled with query-level diagnostics.
Starting with an EXPLAIN statement allows you to gather data-driven insights, align with Appian's performance troubleshooting methodology, and proceed with informed optimizations.
References:Appian Documentation - Performance Troubleshooting Guide, Appian Lead Developer Training
- Database Optimization, MySQL/PostgreSQL Documentation - EXPLAIN Statement.

NEW QUESTION # 30
You need to export data using an out-of-the-box Appian smart service. Which two formats are available (or data generation?

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

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 # 31
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. Group epics and stories by feature, and allocate work between each team by feature.
- B. Have each team choose the stories they would like to work on based on personal preference.
- C. Group epics and stories by technical difficulty, and allocate one team the more challenging stories.
- D. Allocate stories to each team based on the cumulative years of experience of the team members.

Answer: A

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 # 32
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