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>> ACD-301考試指南 <<

Appian ACD-301試題 - 新版ACD-301題庫

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最新的 Appian Certification Program ACD-301 免費考試真題 (Q32-Q37):

問題 #32

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.formData.username
- B. **httpRequest.queryParameters.username**
- C. httpRequest.queryParameters.users.username
- D. httpRequest.users.username

答案： B

解題說明：

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.

問題 #33

You need to design a complex Appian integration to call a RESTful API. The RESTful API will be used to update a case in a customer's legacy system.

What are three prerequisites for designing the integration?

- A. Understand the content of the expected body, including each field type and their limits.
- B. Understand the different error codes managed by the API and the process of error handling in Appian.
- C. Understand whether this integration will be used in an interface or in a process model.
- D. Define the HTTP method that the integration will use.
- E. Understand the business rules to be applied to ensure the business logic of the data.

答案： A,B,D

解題說明：

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, designing a complex integration to a RESTful API for updating a case in a legacy system requires a structured approach to ensure reliability, performance, and alignment with business needs. The integration involves sending a JSON payload (implied by the context) and handling responses, so the focus is on technical and functional prerequisites. Let's evaluate each option:

A . Define the HTTP method that the integration will use:

This is a primary prerequisite. RESTful APIs use HTTP methods (e.g., POST, PUT, GET) to define the operation—here, updating a case likely requires PUT or POST. Appian's Connected System and Integration objects require specifying the method to configure the HTTP request correctly. Understanding the API's method ensures the integration aligns with its design, making this essential for design. Appian's documentation emphasizes choosing the correct HTTP method as a foundational step.

B . Understand the content of the expected body, including each field type and their limits:

This is also critical. The JSON payload for updating a case includes fields (e.g., text, dates, numbers), and the API expects a specific structure with field types (e.g., string, integer) and limits (e.g., max length, size constraints). In Appian, the Integration object requires a dictionary or CDT to construct the body, and mismatches (e.g., wrong types, exceeding limits) cause errors (e.g., 400 Bad Request). Appian's best practices mandate understanding the API schema to ensure data compatibility, making this a key prerequisite.

C . Understand whether this integration will be used in an interface or in a process model:

While knowing the context (interface vs. process model) is useful for design (e.g., synchronous vs. asynchronous calls), it's not a prerequisite for the integration itself—it's a usage consideration. Appian supports integrations in both contexts, and the integration's design (e.g., HTTP method, body) remains the same. This is secondary to technical API details, so it's not among the top three

prerequisites.

D . Understand the different error codes managed by the API and the process of error handling in Appian:

This is essential. RESTful APIs return HTTP status codes (e.g., 200 OK, 400 Bad Request, 500 Internal Server Error), and the customer's API likely documents these for failure scenarios (e.g., invalid data, server issues). Appian's Integration objects can handle errors via error mappings or process models, and understanding these codes ensures robust error handling (e.g., retry logic, user notifications). Appian's documentation stresses error handling as a core design element for reliable integrations, making this a primary prerequisite.

E . Understand the business rules to be applied to ensure the business logic of the data:

While business rules (e.g., validating case data before sending) are important for the overall application, they aren't a prerequisite for designing the integration itself—they're part of the application logic (e.g., process model or interface). The integration focuses on technical interaction with the API, not business validation, which can be handled separately in Appian. This is a secondary concern, not a core design requirement for the integration.

Conclusion: The three prerequisites are A (define the HTTP method), B (understand the body content and limits), and D (understand error codes and handling). These ensure the integration is technically sound, compatible with the API, and resilient to errors-critical for a complex RESTful API integration in Appian.

Appian Documentation: "Designing REST Integrations" (HTTP Methods, Request Body, Error Handling).

Appian Lead Developer Certification: Integration Module (Prerequisites for Complex Integrations).

Appian Best Practices: "Building Reliable API Integrations" (Payload and Error Management).

To design a complex Appian integration to call a RESTful API, you need to have some prerequisites, such as:

Define the HTTP method that the integration will use. The HTTP method is the action that the integration will perform on the API, such as GET, POST, PUT, PATCH, or DELETE. The HTTP method determines how the data will be sent and received by the API, and what kind of response will be expected.

Understand the content of the expected body, including each field type and their limits. The body is the data that the integration will send to the API, or receive from the API, depending on the HTTP method. The body can be in different formats, such as JSON, XML, or form data. You need to understand how to structure the body according to the API specification, and what kind of data types and values are allowed for each field.

Understand the different error codes managed by the API and the process of error handling in Appian. The error codes are the status codes that indicate whether the API request was successful or not, and what kind of problem occurred if not. The error codes can range from 200 (OK) to 500 (Internal Server Error), and each code has a different meaning and implication. You need to understand how to handle different error codes in Appian, and how to display meaningful messages to the user or log them for debugging purposes.

The other two options are not prerequisites for designing the integration, but rather considerations for implementing it.

Understand whether this integration will be used in an interface or in a process model. This is not a prerequisite, but rather a decision that you need to make based on your application requirements and design. You can use an integration either in an interface or in a process model, depending on where you need to call the API and how you want to handle the response. For example, if you need to update a case in real-time based on user input, you may want to use an integration in an interface. If you need to update a case periodically based on a schedule or an event, you may want to use an integration in a process model.

Understand the business rules to be applied to ensure the business logic of the data. This is not a prerequisite, but rather a part of your application logic that you need to implement after designing the integration. You need to apply business rules to validate, transform, or enrich the data that you send or receive from the API, according to your business requirements and logic. For example, you may need to check if the case status is valid before updating it in the legacy system, or you may need to add some additional information to the case data before displaying it in Appian.

問題 #34

You are running an inspection as part of the first deployment process from TEST to PROD. You receive a notice that one of your objects will not deploy because it is dependent on an object from an application owned by a separate team.

What should be your next step?

- A. Check the dependencies of the necessary object. Deploy to PROD if there are few dependencies and it is low risk.
- B. Push a functionally viable package to PROD without the dependencies, and plan the rest of the deployment accordingly with the other team's constraints.
- C. **Halt the production deployment and contact the other team for guidance on promoting the object to PROD.**
- D. Create your own object with the same code base, replace the dependent object in the application, and deploy to PROD.

答案： C

解題說明：

Comprehensive and Detailed In-Depth Explanation:

As an Appian Lead Developer, managing a deployment from TEST to PROD requires careful handling of dependencies, especially when objects from another team's application are involved. The scenario describes a dependency issue during deployment, signaling

a need for collaboration and governance. Let's evaluate each option:

A . Create your own object with the same code base, replace the dependent object in the application, and deploy to PROD:

This approach involves duplicating the object, which introduces redundancy, maintenance risks, and potential version control issues. It violates Appian's governance principles, as objects should be owned and managed by their respective teams to ensure consistency and avoid conflicts. Appian's deployment best practices discourage duplicating objects unless absolutely necessary, making this an unsustainable and risky solution.

B . Halt the production deployment and contact the other team for guidance on promoting the object to PROD:

This is the correct step. When an object from another application (owned by a separate team) is a dependency, Appian's deployment process requires coordination to ensure both applications' objects are deployed in sync. Halting the deployment prevents partial deployments that could break functionality, and contacting the other team aligns with Appian's collaboration and governance guidelines. The other team can provide the necessary object version, adjust their deployment timeline, or resolve the dependency, ensuring a stable PROD environment.

C . Check the dependencies of the necessary object. Deploy to PROD if there are few dependencies and it is low risk:

This approach risks deploying an incomplete or unstable application if the dependency isn't fully resolved. Even with "few dependencies" and "low risk," deploying without the other team's object could lead to runtime errors or broken functionality in PROD. Appian's documentation emphasizes thorough dependency management during deployment, requiring all objects (including those from other applications) to be promoted together, making this risky and not recommended.

D . Push a functionally viable package to PROD without the dependencies, and plan the rest of the deployment accordingly with the other team's constraints:

Deploying without dependencies creates an incomplete solution, potentially leaving the application non-functional or unstable in PROD. Appian's deployment process ensures all dependencies are included to maintain application integrity, and partial deployments are discouraged unless explicitly planned (e.g., phased rollouts). This option delays resolution and increases risk, contradicting Appian's best practices for Production stability.

Conclusion: Halting the production deployment and contacting the other team for guidance (B) is the next step. It ensures proper collaboration, aligns with Appian's governance model, and prevents deployment errors, providing a safe and effective resolution.

Appian Documentation: "Deployment Best Practices" (Managing Dependencies Across Applications).

Appian Lead Developer Certification: Application Management Module (Cross-Team Collaboration).

Appian Best Practices: "Handling Production Deployments" (Dependency Resolution).

問題 #35

You are in a backlog refinement meeting with the development team and the product owner. You review a story for an integration involving a third-party system. A payload will be sent from the Appian system through the integration to the third-party system. The story is 21 points on a Fibonacci scale and requires development from your Appian team as well as technical resources from the third-party system. This item is crucial to your project's success. What are the two recommended steps to ensure this story can be developed effectively?

- A. Identify subject matter experts (SMEs) to perform user acceptance testing (UAT).
- B. Acquire testing steps from QA resources.
- C. Break down the item into smaller stories.
- D. Maintain a communication schedule with the third-party resources.

答案： C,D

解題說明：

Comprehensive and Detailed In-Depth Explanation:

This question involves a complex integration story rated at 21 points on the Fibonacci scale, indicating significant complexity and effort. Appian Lead Developer best practices emphasize effective collaboration, risk mitigation, and manageable development scopes for such scenarios. The two most critical steps are:

Option C (Maintain a communication schedule with the third-party resources):

Integrations with third-party systems require close coordination, as Appian developers depend on external teams for endpoint specifications, payload formats, authentication details, and testing support. Establishing a regular communication schedule ensures alignment on requirements, timelines, and issue resolution. Appian's Integration Best Practices documentation highlights the importance of proactive communication with external stakeholders to prevent delays and misunderstandings, especially for critical project components.

Option D (Break down the item into smaller stories):

A 21-point story is considered large by Agile standards (Fibonacci scale typically flags anything above 13 as complex). Appian's Agile Development Guide recommends decomposing large stories into smaller, independently deliverable pieces to reduce risk, improve testability, and enable iterative progress. For example, the integration could be split into tasks like designing the payload structure, building the integration object, and testing the connection-each manageable within a sprint. This approach aligns with the principle of delivering value incrementally while maintaining quality.

Option A (Acquire testing steps from QA resources): While QA involvement is valuable, this step is more relevant during the testing phase rather than backlog refinement or development preparation. It's not a primary step for ensuring effective development of the story.

Option B (Identify SMEs for UAT): User acceptance testing occurs after development, during the validation phase. Identifying SMEs is important but not a key step in ensuring the story is developed effectively during the refinement and coding stages.

By choosing C and D, you address both the external dependency (third-party coordination) and internal complexity (story size), ensuring a smoother development process for this critical integration.

問題 #36

You are on a project with an application that has been deployed to Production and is live with users. The client wishes to increase the number of active users.

You need to conduct load testing to ensure Production can handle the increased usage. Review the specs for four environments in the following image.

Which environment should you use for load testing?

- A. acmeuat
- B. acmedev
- C. acme
- D. acmetest

答案：A

解題說明：

The image provides the specifications for four environments in the Appian Cloud:

acmedev.appiancloud.com (acmedev): Non-production, Disk: 30 GB, Memory: 16 GB, vCPUs: 2 acmetest.appiancloud.com

(acmetest): Non-production, Disk: 75 GB, Memory: 32 GB, vCPUs: 4 acmeuat.appiancloud.com (acmeuat): Non-production,

Disk: 75 GB, Memory: 64 GB, vCPUs: 8 acme.appiancloud.com (acme): Production, Disk: 75 GB, Memory: 32 GB, vCPUs: 4

Load testing assesses an application's performance under increased user load to ensure scalability and stability. Appian's Performance Testing Guidelines emphasize using an environment that mirrors Production as closely as possible to obtain accurate results, while avoiding direct impact on live systems.

Option A (acmeuat): This is the best choice. The UAT (User Acceptance Testing) environment (acmeuat) has the highest resources (64 GB memory, 8 vCPUs) among the non-production environments, closely aligning with Production's capabilities (32 GB memory, 4 vCPUs) but with greater capacity to handle simulated loads. UAT environments are designed to validate the application with real-world usage scenarios, making them ideal for load testing. The higher resources also allow testing beyond current Production limits to predict future scalability, meeting the client's goal of increasing active users without risking live data.

Option B (acmedev): The development environment (acmedev) has the lowest resources (16 GB memory, 2 vCPUs), which is insufficient for load testing. It's optimized for development, not performance simulation, and results would not reflect Production behavior accurately.

Option C (acme): The Production environment (acme) is live with users, and load testing here would disrupt service, violate Appian's Production Safety Guidelines, and risk data integrity. It should never be used for testing.

Option D (acmetest): The test environment (acmetest) has moderate resources (32 GB memory, 4 vCPUs), matching Production's memory and vCPUs. However, it's typically used for SIT (System Integration Testing) and has less capacity than acmeuat. While viable, it's less ideal than acmeuat for simulating higher user loads due to its resource constraints.

Appian recommends using a UAT environment for load testing when it closely mirrors Production and can handle simulated traffic, making acmeuat the optimal choice given its superior resources and non-production status.

問題 #37

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