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Appian Certified Lead Developer Sample Questions (Q36-Q41):

NEW QUESTION # 36
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 technical difficulty, and allocate one team the more challenging stories.
- B. Group epics and stories by feature, and allocate work between each team by feature.
- C. Have each team choose the stories they would like to work on based on personal preference.
- D. Allocate stories to each team based on the cumulative years of experience of the team members.

Answer: B

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 # 37
You are tasked to build a large-scale acquisition application for a prominent customer. The acquisition process tracks the time it takes to fulfill a purchase request with an award.
The customer has structured the contract so that there are multiple application development teams.
How should you design for multiple processes and forms, while minimizing repeated code?

- A. Create a common objects application.
- B. Create a Center of Excellence (CoE).
- C. Create duplicate processes and forms as needed.
- D. Create a Scrum of Scrums sprint meeting for the team leads.

Answer: A

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, designing a large-scale acquisition application with multiple development teams requires a strategy to manage processes, forms, and code reuse effectively. The goal is to minimize repeated code (e.g., duplicate interfaces, process models) while ensuring scalability and maintainability across teams. Let's evaluate each option:
A . Create a Center of Excellence (CoE):
A Center of Excellence is an organizational structure or team focused on standardizing practices, training, and governance across projects. While beneficial for long-term consistency, it doesn't directly address the technical design of minimizing repeated code for processes and forms. It's a strategic initiative, not a design solution, and doesn't solve the immediate need for code reuse. Appian's documentation mentions CoEs for governance but not as a primary design approach, making this less relevant here.
B . Create a common objects application:
This is the best recommendation. In Appian, a "common objects application" (or shared application) is used to store reusable components like expression rules, interfaces, process models, constants, and data types (e.g., CDTs). For a large-scale acquisition application with multiple teams, centralizing shared objects (e.g., rule!CommonForm, pm!CommonProcess) ensures consistency, reduces duplication, and simplifies maintenance. Teams can reference these objects in their applications, adhering to Appian's design best practices for scalability. This approach minimizes repeated code while allowing team-specific customizations, aligning with Lead Developer standards for large projects.
C . Create a Scrum of Scrums sprint meeting for the team leads:
A Scrum of Scrums meeting is a coordination mechanism for Agile teams, focusing on aligning sprint goals and resolving cross-team dependencies. While useful for collaboration, it doesn't address the technical design of minimizing repeated code-it's a process, not a solution for code reuse. Appian's Agile methodologies support such meetings, but they don't directly reduce duplication in processes and forms, making this less applicable.
D . Create duplicate processes and forms as needed:
Duplicating processes and forms (e.g., copying interface!PurchaseForm for each team) leads to redundancy, increased maintenance effort, and potential inconsistencies (e.g., divergent logic). This contradicts the goal of minimizing repeated code and violates Appian's design principles for reusability and efficiency. Appian's documentation strongly discourages duplication, favoring shared objects instead, making this the least effective option.

Conclusion: Creating a common objects application (B) is the recommended design. It centralizes reusable processes, forms, and other components, minimizing code duplication across teams while ensuring consistency and scalability for the large-scale acquisition application. This leverages Appian's application architecture for shared resources, aligning with Lead Developer best practices for multi-team projects.
Appian Documentation: "Designing Large-Scale Applications" (Common Application for Reusable Objects).
Appian Lead Developer Certification: Application Design Module (Minimizing Code Duplication).
Appian Best Practices: "Managing Multi-Team Development" (Shared Objects Strategy).
To build a large scale acquisition application for a prominent customer, you should design for multiple processes and forms, while minimizing repeated code. One way to do this is to create a common objects application, which is a shared application that contains reusable components, such as rules, constants, interfaces, integrations, or data types, that can be used by multiple applications. This way, you can avoid duplication and inconsistency of code, and make it easier to maintain and update your applications. You can also use the common objects application to define common standards and best practices for your application development teams, such as naming conventions, coding styles, or documentation guidelines. Verified [Appian Best Practices], [Appian Design Guidance]

NEW QUESTION # 38
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 dedicated account's login information
- B. OAuth 2.0: Authorization Code Grant
- C. Basic Authentication with user's login information
- D. API Key Authentication

Answer: B

Explanation:
Comprehensive and Detailed In-Depth Explanation:
As an Appian Lead Developer, integrating with an external system like LinkedIn to retrieve private user information requires a secure, user-consented authentication method that aligns with Appian's capabilities and industry standards. The requirement specifies that users must explicitly allow Appian to access their private data, which rules out methods that don't involve user authorization. Let's evaluate each option based on Appian's official documentation and LinkedIn's API requirements:
A . API Key Authentication:
API Key Authentication involves using a single static key to authenticate requests. While Appian supports this method via Connected Systems (e.g., HTTP Connected System with an API key header), it's unsuitable here. API keys authenticate the application, not the user, and don't provide a mechanism for individual user consent. LinkedIn's API for private data (e.g., profile information) requires per-user authorization, which API keys cannot facilitate. Appian documentation notes that API keys are best for server-to-server communication without user context, making this option inadequate for the requirement.
B . Basic Authentication with user's login information:
This method uses a username and password (typically base64-encoded) provided by each user. In Appian, Basic Authentication is supported in Connected Systems, but applying it here would require users to input their LinkedIn credentials directly into Appian. This is insecure, impractical, and against LinkedIn's security policies, as it exposes user passwords to the application. Appian Lead Developer best practices discourage storing or handling user credentials directly due to security risks (e.g., credential leakage) and maintenance challenges. Moreover, LinkedIn's API doesn't support Basic Authentication for user-specific data access-it requires OAuth 2.0. This option is not viable.
C . Basic Authentication with dedicated account's login information:
This involves using a single, dedicated LinkedIn account's credentials to authenticate all requests. While technically feasible in Appian's Connected System (using Basic Authentication), it fails to meet the requirement that "users should allow Appian to retrieve their information." A dedicated account would access data on behalf of all users without their individual consent, violating privacy principles and LinkedIn's API terms. LinkedIn restricts such approaches, requiring user-specific authorization for private data. Appian documentation advises against blanket credentials for user-specific integrations, making this option inappropriate.
D . OAuth 2.0: Authorization Code Grant:
This is the recommended choice. OAuth 2.0 Authorization Code Grant, supported natively in Appian's Connected System framework, is designed for scenarios where users must authorize an application (Appian) to access their private data on a third-party service (LinkedIn). In this flow, Appian redirects users to LinkedIn's authorization page, where they grant permission. Upon approval, LinkedIn returns an authorization code, which Appian exchanges for an access token via the Token Request Endpoint. This token enables Appian to retrieve private user data (e.g., profile details) securely and per user. Appian's documentation explicitly recommends this method for integrations requiring user consent, such as LinkedIn, and provides tools like a!authorizationLink() to handle authorization failures gracefully. LinkedIn's API (e.g., v2 API) mandates OAuth 2.0 for personal data access, aligning perfectly with this approach.

Conclusion: OAuth 2.0: Authorization Code Grant (D) is the best method. It ensures user consent, complies with LinkedIn's API requirements, and leverages Appian's secure integration capabilities. In practice, you'd configure a Connected System in Appian with LinkedIn's Client ID, Client Secret, Authorization Endpoint (e.g., https://www.linkedin.com/oauth/v2/authorization), and Token Request Endpoint (e.g., https://www.linkedin.com/oauth/v2/accessToken), then use an Integration object to call LinkedIn APIs with the access token. This solution is scalable, secure, and aligns with Appian Lead Developer certification standards for third-party integrations.
Appian Documentation: "Setting Up a Connected System with the OAuth 2.0 Authorization Code Grant" (Connected Systems).
Appian Lead Developer Certification: Integration Module (OAuth 2.0 Configuration and Best Practices).
LinkedIn Developer Documentation: "OAuth 2.0 Authorization Code Flow" (API Authentication Requirements).

NEW QUESTION # 39
You are planning a strategy around data volume testing for an Appian application that queries and writes to a MySQL database. You have administrator access to the Appian application and to the database. What are two key considerations when designing a data volume testing strategy?

- A. Data model changes must wait until towards the end of the project.
- B. The amount of data that needs to be populated should be determined by the project sponsor and the stakeholders based on their estimation.
- C. Data from previous tests needs to remain in the testing environment prior to loading prepopulated data.
- D. Large datasets must be loaded via Appian processes.
- E. Testing with the correct amount of data should be in the definition of done as part of each sprint.

Answer: B,E

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Data volume testing ensures an Appian application performs efficiently under realistic data loads, especially when interacting with external databases like MySQL. As an Appian Lead Developer with administrative access, the focus is on scalability, performance, and iterative validation. The two key considerations are:
Option C (The amount of data that needs to be populated should be determined by the project sponsor and the stakeholders based on their estimation):
Determining the appropriate data volume is critical to simulate real-world usage. Appian's Performance Testing Best Practices recommend collaborating with stakeholders (e.g., project sponsors, business analysts) to define expected data sizes based on production scenarios. This ensures the test reflects actual requirements-like peak transaction volumes or record counts-rather than arbitrary guesses. For example, if the application will handle 1 million records in production, stakeholders must specify this to guide test data preparation.
Option D (Testing with the correct amount of data should be in the definition of done as part of each sprint):
Appian's Agile Development Guide emphasizes incorporating performance testing (including data volume) into the Definition of Done (DoD) for each sprint. This ensures that features are validated under realistic conditions iteratively, preventing late-stage performance issues. With admin access, you can query/write to MySQL and assess query performance or write latency with the specified data volume, aligning with Appian's recommendation to "test early and often." Option A (Data from previous tests needs to remain in the testing environment prior to loading prepopulated data): This is impractical and risky. Retaining old test data can skew results, introduce inconsistencies, or violate data integrity (e.g., duplicate keys in MySQL). Best practices advocate for a clean, controlled environment with fresh, prepopulated data per test cycle.
Option B (Large datasets must be loaded via Appian processes): While Appian processes can load data, this is not a requirement. With database admin access, you can use SQL scripts or tools like MySQL Workbench for faster, more efficient data population, bypassing Appian process overhead. Appian documentation notes this as a preferred method for large datasets.
Option E (Data model changes must wait until towards the end of the project): Delaying data model changes contradicts Agile principles and Appian's iterative design approach. Changes should occur as needed throughout development to adapt to testing insights, not be deferred.

NEW QUESTION # 40
You are on a protect 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 testing7

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

Answer: D

Explanation:
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.

NEW QUESTION # 41
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