



CERTBULL
FREEDOM TO RISE AND INSPIRE

APPIAN ACD 200

APPIAN CERTIFIED SENIOR DEVELOPER

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QUESTION NO: 1

As a developer, you have created a Web API.

To execute the API, what is the minimum privilege the end user should have?

- A. Initiator
- B. Viewer
- C. Administrator
- D. Editor

QUESTION NO: 2

What are three things you can do to improve the memory usage of a process model?

- A. Avoid storing large blocks of text in process variables.
- B. Split large nodes into many smaller nodes.
- C. Configure process variables to be parameters.
- D. Reduce the number of process variables.
- E. Pass data directly to activity nodes and smart services.

QUESTION NO: 3

You have configured a process model to send an email to one or more recipients using the out-of-the-box Send E-Mail node.

Executing the process model results in the Send E-Mail node encountered this error: "Error: Email could not be sent."

Where do you go first to find more details on why the node encountered an error?

- A. Raise a support case within My Appian so a cloud engineer can investigate.
- B. Investigate the application server stdout log.
- C. Review the system.csv log.
- D. Run and review the Health Check report

QUESTION NO: 4

Your organization is in the process of designing its user interfaces with a focus on accessibility.

Match the components or parameters to their accessible properties or functions.

Each answer will be used once.

Accessibility text parameter

Select a match:

▼

Box labels, section labels, and rich text headers

Select a match:

▼

Labels, instructions, and validation messages

Select a match:

▼

Alternative text parameter

Select a match:

▼

Accessibility text parameter

Select a match:

▼

Help users understand the structure of information on a page.
Explicitly describe form inputs and automatically optimize accessibility.
Specify a text equivalent for images and icons.
Specify text on a field or layout that will only be read by screen readers.

Labels, instructions, and validation messages

Select a match:

▼

Help users understand the structure of information on a page.
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Select a match:

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Select a match:

▼

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ANSWER:

Accessibility text parameter

Select a match:

Specify text on a field or layout that will only be read by screen readers. ▼

Box labels, section labels, and rich text headers

Select a match:

Help users understand the structure of information on a page. ▼

Labels, instructions, and validation messages

Select a match:

Explicitly describe form inputs and automatically optimize accessibility. ▼

Alternative text parameter

Select a match:

Specify a text equivalent for images and icons. ▼

QUESTION NO: 5

You are designing a case management application. The initiator creates a case, and the reviewer reviews it approximately 7 days later.

You have already designed a process model for the initiators to create the case.

Which process model design will result in the lowest memory impact?

- A. When all case details are entered, the process flow will call a Start Process node to initialize a review process model for the reviewer.
- B. When all case details are entered, the process flow will proceed and assign a task to the reviewer to review the record.
- C. When all case details are entered, the process flow will call a Sub-Process node to initialize a review process model for the reviewer.
- D. When all case details are entered, the case appears as a case record, and when the reviewer is ready to review the record, they can do so via a related action from the case record.

QUESTION NO: 6

What is the appropriate HTTP request method for initiating a process which needs input data via an Appian web API?

- A. PUT
- B. POST
- C. GET

QUESTION NO: 7

You need to relate two entities, Employee and Skill, in the data structure. You want to adhere to Appian best practices.

Employees can have multiple skills, and a single skill can relate to multiple employees.

What type of relationship do these entities represent, and what is the minimum number of tables required to implement the design?

- A. Many-to-many; 2 tables
- B. Many-to-many; 3 tables
- C. One-to-many; 2 tables

QUESTION NO: 8

Which two statements about the `queryEntity()` function are true?

- A. Setting the `fetchTotalCount` parameter to `False` can improve the performance of the rule.

- B. The queries defined using the query parameter return a constrained subset of matching data records by default.
- C. The entity value must be given as a constant of type Data Store Entity.
- D. The queries defined using the query parameter are not limited in how long they wait to return results.

QUESTION NO: 9

How can a user in the Appian environment prevent the uploading of documents without extensions?

- A. Enable File Upload > Block files without an extension, under Administration Console.
- B. No actions are required from the user; Appian auto-validates these documents.
- C. Restrict document uploads by user roles.

QUESTION NO: 10

Users are experiencing slow load times when retrieving customer records with many transactions.

After using performance monitoring tools, you discover that the following interface definition is responsible for the majority of page load time:

```
INTERFACE DEFINITION
1 a!localVariables(
2   local!pagingInfo: a!pagingInfo(
3     startIndex: 1,
4     batchSize: 25
5   ),
6   local!tableData: rule!APP_GetTransactionWithFilters(
7     pagingInfo: local!pagingInfo,
8     customerId: ri!customerId
9   ),
10  a!gridField(
11    data: local!tableData.data,
12    pagingSaveInto: local!pagingInfo,
13    columns: {
14      a!gridColumn(
15        /* Show the transaction id */
16        value: fv!row.transactionId
17      ),
18      a!gridColumn(
19        /* Display the transaction date */
20        value: fv!row.transactionDate
21      ),
22      a!gridColumn(
23        /* Get the transaction type from the database */
24        value: rule!APP_GetTransactionTypeWithFilters(
25          transactionType: fv!row.transactionTypeId,
26          pagingInfo: a!pagingInfo(
27            startIndex: 1,
28            batchSize: 1
29          )
30        ).data.transactionTypeName
31      )
32    }
33  )
34 )
```

Additionally, both queries (rule! APP_GetTransactionsWithFilters and rule! APP_GetTransactionTypeWithFilters) take approximately 25 milliseconds each to execute when you test them using the expression editor.

Which action would result in the greatest reduction in the load time for this interface component?

- A. Prefetch transaction types and use the `displayvalue()` function to display the Transaction Type for each transaction.
- B. Use a synced record for Transactions to improve the query response time for the query performed on line 6.
- C. Avoid fetching the total count when getting transactions.

QUESTION NO: 11

You are redesigning user interfaces to achieve more efficient space usage.

Which layout component is the best choice for displaying an interface with a vertical meaningful order of components?

- A. `a!sideBySideLayoutQ`
- B. `a!columnsLayout()`
- C. `a!cardLayout()`

QUESTION NO: 12

You need to create an expression rule that will be reused throughout your environment.

What are two reasons why you should include meaningful test cases when creating a new expression rule?

- A. Accelerate various types of testing, including: unit, regression, exploratory.
- B. Facilitate Test-Driven Development.
- C. Improve the performance of the environment.
- D. Enhance the appearance of the code.

QUESTION NO: 13

You are about to deploy a package to another environment.

Which two statements are true?

- A. It is not possible to import the same package multiple times.
- B. It is possible to import the same package multiple times.
- C. It is possible to undo changes from an import to all types of objects.
- D. It is not possible to undo changes from an import to all types of objects.

QUESTION NO: 14

Which review format is the most efficient way to coach team members and improve code quality?

- A. User Acceptance Testing
- B. Peer Dev Review
- C. Automated Code Scanning
- D. Retrospectives

QUESTION NO: 15

You need to find a list of expression rules that are causing performance issues, or have caused performance issues in the last 30 days.

What should you do?

- A. Inspect the application server log.
- B. Access the Rule Performance tab in the Administration Console.
- C. Use the Monitoring tab to find rules with a low completion percentage.
- D. Observe the runtime of all test cases.

QUESTION NO: 16

You are referencing and using arrays of a CDT (Custom Data Type).

Which two statements are true?

- A. The function wherecontains can act on operands of different types.
- B. There is no difference between using "dot notation" and the index () function.
- C. An array of integers can be passed as the second parameter to the index () function to return the data at those positions in the array.
- D. Other Appian functions can be used within the square brackets "[]" when using dot notation to return specific data from the array.

QUESTION NO: 17

Application users are seeing long wait times between two forms they need to complete for a case.

While reviewing the process model, you identify that activity chaining has been used throughout the process model, including unattended nodes.

Which three actions can you take to make the process model more efficient?

- A. Move transactions that can be done asynchronously outside of the chain.
- B. Use MNI for unattended nodes and chain where possible.
- C. Avoid chaining system nodes like Integrations.
- D. Reduce the number of swim lanes.

E. Shorten long process chains by combining transactions into the smallest number of nodes.

QUESTION NO: 18

You have a requirement to implement an audit trail for any modifications to a record.

You need to select the most efficient design option that has the least impact on your Appian application.

What should you do?

- A. Create an Appian process to capture the change history and write the audit trail to the database.
- B. Create a trigger on the database table to capture the audit trail to a table.**
- C. Create a custom plug-in that can write an audit trail to a log file.

QUESTION NO: 19

You need to select a plug-in to meet a specific requirement and several plug-ins can do the job. What are three key factors to consider?

- A. What are the compatible Appian versions?**
- B. What is the size of the plug-in?
- C. What are the limitations of the plug-in?**
- D. Is the plug-in open source or proprietary?
- E. Is the plug-in approved for use in the Cloud?**
- F. Who is the creator of the plug-in?

QUESTION NO: 20

You are troubleshooting a process model instance with an error in a node. 29m 52s

Which two options will allow you to obtain more information about the error?

- A. View the properties dialog of the affected node.**
- B. Open the process model from the process instance.
- C. View the Process Details dialog.**
- D. View the process model properties

QUESTION NO: 21

You developed an interface which does not load. Upon checking the Design Errors log, you notice a memory circuit breaker error.

What are two probable root causes for this error?

- A. The interface contains special characters.
- B. A database query is taking an extended time to process.

C. The interface component is looping over a high number of items.

D. The interface is retaining too much data in local variables.

QUESTION NO: 22

You need to create a quality control (QC) review process for a factory that allows a QC technician to review each production line regularly.

You have the following requirements:

- Each technician has 45 minutes to complete their review.
- After 45 minutes, the review will expire.
- Expired reviews are flagged as "Review expired."
- "Review expired" flags trigger an email notification to a supervisor, and the review data should not be saved.
- The technician can save a Draft copy of their review before submission and can come back to work on it later if necessary.
- Once a review is "Submitted," the review data is saved to the database.

What should you implement?

- A. An exception timer that skips the QC review task after 45 minutes, which flows to a Send Email node configured to notify a supervisor.
- B. A send message event which sends an email after 45 minutes to the supervisor.
- C. An escalation that sends an email after 45 minutes to the supervisor.

QUESTION NO: 23

You are troubleshooting slow response times on a SAIL interface.

What are two potential causes of the performance issues?

- A. Stacked button layout
- B. Multiple rule inputs
- C. Configuration of refresh variables
- D. Multiple ai save operations

QUESTION NO: 24

You are tasked with configuring a process model to store the result of an expression rule for every item in a list.

Which process model design has the lowest memory footprint?

- A. Configure a script task to use a!foreach to iterate over each item in the list.
- B. Run MNI over a script task for each item in the list.
- C. Create a loop of smart service nodes in the process model and execute it for each item in the list.

D. Call a sub-process for each item in the list.

QUESTION NO: 25

Match the requirements for a task to the configuration needed to implement the requirement. Each configuration may be used once, or not at all.

After 72 hours, the task should expire and be removed from the user's task list.

Select a match:

After 24 hours, an email should be sent to task assignees reminding them to complete the task.

Select a match:

The task should not start until two (2) hours after the last node completes.

Select a match:

The task should be assigned to a group of administrators if it is started on a weekend.

Select a match:

After 72 hours, the task should expire and be removed from the user's task list.

Select a match:

- Escalation
- Exception
- Scheduling
- Assignment
- Deadlines
- Execution Options

After 24 hours, an email should be sent to task assignees reminding them to complete the task.

Select a match:

- Escalation
- Exception
- Scheduling
- Assignment
- Deadlines
- Execution Options

The task should not start until two (2) hours after the last node completes.

Select a match:

- Escalation
- Exception
- Scheduling
- Assignment
- Deadlines
- Execution Options

The task should be assigned to a group of administrators if it is started on a weekend.

Select a match:

- Escalation
- Exception
- Scheduling
- Assignment
- Deadlines
- Execution Options

ANSWER:

After 72 hours, the task should expire and be removed from the user's task list.

Select a match:

Deadlines

After 24 hours, an email should be sent to task assignees reminding them to complete the task.

Select a match:

Escalation

The task should not start until two (2) hours after the last node completes.

Select a match:

Scheduling

The task should be assigned to a group of administrators if it is started on a weekend.

Select a match:

Assignment

QUESTION NO: 26

You are creating the group structure of a new application.

Which three best practices apply?

A. Avoid creating custom group types unless there is a strong need/requirement.

B. Only create the groups necessary for task assignment or security.

C. Flat group structures should be avoided.

D. Keep group names unique.

E. Group names should not include the application prefix

QUESTION NO: 27

You are presenting data through data visualization.

Match the chart types to the data they are best suited to represent. Each answer will be used once.

Line charts

Select a match:



Bar charts

Select a match:



Column charts

Select a match:



Pie charts

Select a match:



Line charts

Select a match:

- Show proportional data in one category and can help a user understand the contribution of parts to a whole.
- Show direct comparison of data with multiple categories with a relatively small set of positive and/or negative values.
- Compare values across a relatively large number of categories that are not sequential or time-based.
- Compare values across categories and/or over time and are effective at presenting many data points.

Bar charts

Select a match:

- Show proportional data in one category and can help a user understand the contribution of parts to a whole.
- Show direct comparison of data with multiple categories with a relatively small set of positive and/or negative values.
- Compare values across a relatively large number of categories that are not sequential or time-based.
- Compare values across categories and/or over time and are effective at presenting many data points.

Column charts

Select a match:

- Show proportional data in one category and can help a user understand the contribution of parts to a whole.
- Show direct comparison of data with multiple categories with a relatively small set of positive and/or negative values.
- Compare values across a relatively large number of categories that are not sequential or time-based.
- Compare values across categories and/or over time and are effective at presenting many data points.

Pie charts

Select a match:

- Show proportional data in one category and can help a user understand the contribution of parts to a whole.
- Show direct comparison of data with multiple categories with a relatively small set of positive and/or negative values.
- Compare values across a relatively large number of categories that are not sequential or time-based.
- Compare values across categories and/or over time and are effective at presenting many data points.

ANSWER:

Line charts

Select a match:

- Compare values across categories and/or over time and are effective at presenting many data points.

Bar charts

Select a match:

- Compare values across a relatively large number of categories that are not sequential or time-based.

Column charts

Select a match:

- Show direct comparison of data with multiple categories with a relatively small set of positive and/or negative values.

Pie charts

Select a match:

- Show proportional data in one category and can help a user understand the contribution of parts to a whole.

QUESTION NO: 28

You are required to test a Related Action that updates record data. You need to make sure that the correct users can access the form and that the data is updating successfully.

Which is the most appropriate testing method to achieve this using Appian?

- A. User Interface (UI) Testing
- B. Performance Testing
- C. Unit Testing
- D. Load Testing

QUESTION NO: 29

Your organization is considering the adoption of Behavior-Driven Development (BDD) and automated testing as part of application development.

Which three testing tools have packages preconfigured to work with Appian applications and are available via the AppMarket?

- A. Jenkins
- B. Git
- C. Fitness
- D. Cucumber
- E. Selenium API

QUESTION NO: 30

You need to create and design an ERD that represents the client's bookstore inventory.

Match the entity descriptions to the most appropriate relationship. Each relationship type will be used once.

Edition to book

Select a match:

Author to book

Select a match:

Customer to purchase transaction

Select a match:

Book to ISBN (Unique identifier)

Select a match:

Edition to book

Select a match:

- One-to-one
- Many-to-many
- One-to-many
- Many-to-one

Author to book

Select a match:

- One-to-one
- Many-to-many
- One-to-many
- Many-to-one

Customer to purchase transaction

Select a match:

- One-to-one
- Many-to-many
- One-to-many
- Many-to-one

Book to ISBN (Unique identifier)

Select a match:

- One-to-one
- Many-to-many
- One-to-many
- Many-to-one

ANSWER:

Edition to book

Select a match:

Many-to-one

Author to book

Select a match:

Many-to-many

Customer to purchase transaction

Select a match:

One-to-many

Book to ISBN (Unique identifier)

Select a match:

One-to-one

QUESTION NO: 31

What is the lowest permission required on the data store in order to query, write, and delete data?

- A. Editor
- B. Manager**
- C. Administrator
- D. Viewer

QUESTION NO: 32

What should you use to create a virtual relation in a database to query the data?

- A. View**
- B. Index
- C. Procedure
- D. Function

QUESTION NO: 33

Which user role should be used to allow external systems to invoke Appian web APIs?

- A. Designer
- B. Application User
- C. System Administrator
- D. Service Account**

QUESTION NO: 34

You are code-checking your colleague's process model before marking it as Ready for Deployment.

Which three best practices should be applied?

- A. All outgoing flows from a gateway should be labelled.
- B. Activity chaining should be added to the majority of flows.
- C. All nodes should have exception flows.
- D. All XOR/OR gateways should have a single incoming flow.
- E. Node inputs should not make the same query call more than once

QUESTION NO: 35

What is a sign that an application's performance is degrading and should be addressed with changes to the application design?

- A. The number of tasks assigned to users has increased from 1 per day to 5 per day.
- B. Integration calls to an external system are consistently returning an HTTP status code of 500.
- C. Three of the top five most executed process models have a low completion percentage.
- D. The number of objects in the Application has increased from about 100 to about 500.