

# OutSystems Associate Practice Exam (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

- 1. Do events in OutSystems communicate exclusively with the parent element?**
  - A. True**
  - B. False**
- 2. What is the incorrect mapping between OutSystems entities and standard database components?**
  - A. Entities - Tables**
  - B. Attributes - Columns**
  - C. Reference attribute - Primary key**
  - D. Index - Index**
- 3. What is the purpose of the test values section in an aggregate?**
  - A. Define values to test the visualization of the aggregate output**
  - B. Define the conditions for obtaining specific records**
  - C. Define the order of your checkouts**
  - D. Define the entities from which we want to obtain records**
- 4. What is true about sorting in aggregates?**
  - A. Aggregates support only one sorting criterion**
  - B. If more than one sorting criterion is defined, all must have the same direction**
  - C. It is mandatory to define the direction for all sorting criteria**
  - D. It is only possible to define several sorting criteria if there are duplicate records in the entity**
- 5. What action can the Client Action ChangeStatus perform?**
  - A. Can be called from another module**
  - B. Can be called from a Server Action**
  - C. Can be used in an Expression in a Screen**
  - D. Can be called in a Screen Action and by Client Action**

- 6. What limitations exist for Mobile Apps developed in OutSystems?**
- A. They always require active internet access.**
  - B. They can't utilize device features.**
  - C. They can only be used on Android devices.**
  - D. They do not support geolocation features.**
- 7. Which type of variables can be defined within a screen?**
- A. Only local variables**
  - B. Input parameters only**
  - C. Input parameters and local variables**
  - D. Input, output parameters, and local variables**
- 8. Which of the following statements is false regarding Reactive Web Apps?**
- A. A reactive web application is an application for multiple devices**
  - B. Data requests are synchronously executed**
  - C. The code generated by OutSystems results in a single-page application**
  - D. A developer creates a Reactive Web App in Service Studio**
- 9. Can the value of a site property be modified in the Service Center at runtime?**
- A. True**
  - B. False**
  - C. Only during design time.**
  - D. Only in the developer environment.**
- 10. What does the action 'Refresh Data' do in a Screen Action?**
- A. Fetches new data from the database**
  - B. Clears local storage**
  - C. Initializes input parameters**
  - D. Updates UI components**

## **Answers**

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- 1. B**
- 2. C**
- 3. A**
- 4. C**
- 5. B**
- 6. A**
- 7. C**
- 8. B**
- 9. A**
- 10. A**

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## **Explanations**

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**1. Do events in OutSystems communicate exclusively with the parent element?**

**A. True**

**B. False**

In OutSystems, events do not exclusively communicate with the parent element. Instead, they can propagate to both child and parent elements, allowing a more flexible and dynamic interaction model. This capability enables components within OutSystems to communicate with each other regardless of their hierarchical position. For instance, if an event is raised in a child component, it can be caught and handled by either the parent component or even by sibling components, assuming that proper event management is in place. This feature is essential for creating interconnected and responsive applications, as it allows for greater reuse of components and cleaner architectures, thereby promoting a modular design approach. The ability for events to communicate beyond just the parent-child relationship allows developers to build more complex interactions and enhances the overall user experience in the application, leading to more efficient handling of UI updates and user interactions. This flexibility is a crucial aspect of OutSystems' event-driven architecture.

**2. What is the incorrect mapping between OutSystems entities and standard database components?**

**A. Entities - Tables**

**B. Attributes - Columns**

**C. Reference attribute - Primary key**

**D. Index - Index**

The mapping of OutSystems entities to standard database components is generally straightforward and logical. Entities in OutSystems correspond to tables in a traditional database structure, meaning each entity represents a record set within the application. Attributes, which are defined within these entities, correspond to the columns in a database table, as they hold the data for each entity instance. When it comes to reference attributes, it's crucial to clarify their role. A reference attribute in OutSystems is used to establish a connection to another entity, effectively creating a foreign key relationship in the database. However, not all reference attributes are synonymous with primary keys. Primary keys uniquely identify records within their table, while reference attributes merely point to those records in another table. Thus, stating that a reference attribute is a primary key is incorrect as it overlooks the distinct function of reference attributes. Understanding these mappings is essential for effectively using OutSystems and relational databases. Recognizing that each component has its specific role helps to avoid confusion regarding how data is structured and interrelated within the system.

### 3. What is the purpose of the test values section in an aggregate?

**A. Define values to test the visualization of the aggregate output**

**B. Define the conditions for obtaining specific records**

**C. Define the order of your checkouts**

**D. Define the entities from which we want to obtain records**

The purpose of the test values section in an aggregate is to define values that allow for the visualization of the aggregate output. This feature enables developers to simulate how the aggregate will behave with specific data inputs, facilitating the validation of the output generated by the aggregate query. By providing test values, the developer can analyze how the aggregate retrieves and displays data, ensuring the correct functionality before the application is deployed or tested in a production environment. In the context of other options, defining conditions for obtaining specific records focuses more on filtering data based on criteria rather than testing outputs. Similarly, defining the order of checkouts relates to specifying the sequence of operations, which is not the central goal of the test values section. Defining the entities from which to obtain records pertains to setting up the source of data but does not involve the visualization aspect that test values emphasize. Thus, the primary purpose of the test values section is to aid in visualizing and validating the output of the aggregate.

### 4. What is true about sorting in aggregates?

**A. Aggregates support only one sorting criterion**

**B. If more than one sorting criterion is defined, all must have the same direction**

**C. It is mandatory to define the direction for all sorting criteria**

**D. It is only possible to define several sorting criteria if there are duplicate records in the entity**

In aggregates, defining the sorting direction for all criteria is mandatory. This is important because sorting determines how the results of a query or data retrieval are ordered, which directly impacts how users perceive and interact with the data. Each sorting criterion can either be set to ascending or descending, and it is essential to explicitly state the direction for clarity and to avoid ambiguity in the displayed results. When utilizing multiple sorting criteria, if one direction is not specified, it could lead to unpredictable or incorrect ordering of the data, as the system wouldn't know how to interpret the records that fall under different criteria. Therefore, ensuring that each sorting criterion has its direction defined helps maintain consistency and predictability in data presentation. Understanding this concept is crucial for creating efficient and user-friendly data interfaces within OutSystems. The ability to order data correctly is fundamental to presenting it meaningfully, ensuring users can quickly find and make sense of the information they need.

**5. What action can the Client Action ChangeStatus perform?**

- A. Can be called from another module**
- B. Can be called from a Server Action**
- C. Can be used in an Expression in a Screen**
- D. Can be called in a Screen Action and by Client Action**

The action that the Client Action ChangeStatus can perform is being callable from a Server Action. This is significant because in OutSystems, Client Actions are designed to run on the client side, typically in response to user interactions, while Server Actions run on the server side, allowing for the execution of logic that requires server resources or database interactions. When a Client Action is called from a Server Action, it can be utilized to handle specific tasks that are meant to be executed in the client environment, such as updating UI elements or handling user interactions once data has been processed on the server. This interoperation is crucial for building responsive and dynamic applications where the client and server components need to work cohesively. Understanding the relationship and accessibility between the different types of actions is essential for building robust applications in OutSystems, as it defines how data and commands are structured between client-side and server-side operations. This knowledge helps developers to create more effective workflows and user experiences by leveraging the capabilities of both action types effectively.

**6. What limitations exist for Mobile Apps developed in OutSystems?**

- A. They always require active internet access.**
- B. They can't utilize device features.**
- C. They can only be used on Android devices.**
- D. They do not support geolocation features.**

Mobile apps developed in OutSystems do generally function best with active internet access due to their reliance on server-based resources for many of their functionalities. While OutSystems allows for offline capabilities, the core application design often centers around connectivity to leverage real-time data exchange and interaction with backend systems hosted on the server. This means that while some features can be available offline, a significant portion of the app's functionality may still demand an internet connection to fully operate, making active internet access a common requirement. The other options are misleading in the context of OutSystems capabilities. For instance, mobile apps can utilize various device features, such as camera access, geolocation, and notifications. Furthermore, OutSystems supports multiple platforms, allowing apps to be deployed on both Android and iOS devices, thus not limiting them to just one operating system. The ability to use geolocation features is also included, as OutSystems provides tools to integrate device capabilities into applications effectively.

**7. Which type of variables can be defined within a screen?**

- A. Only local variables
- B. Input parameters only
- C. Input parameters and local variables**
- D. Input, output parameters, and local variables

In OutSystems, screens can utilize several types of variables to manage data. Input parameters are essential for passing data to a screen from other parts of the application, allowing for dynamic content to be displayed based on user actions or choices. Local variables, on the other hand, are defined within the scope of the screen itself and can be used for temporary storage and processing of data throughout the user interaction with that screen. The combination of input parameters and local variables allows for a flexible and effective means to handle user inputs and state management within a screen. Input parameters facilitate the receiving of necessary data when the screen is loaded, while local variables help in maintaining values that can be modified during the execution of logic in the screen's lifecycle. This dual capability enhances the screen's functionality and user experience by allowing developers to create more interactive and responsive interfaces. The option that includes both input parameters and local variables best captures the complete range of variable types that can be defined within a screen, making it the most accurate choice.

**8. Which of the following statements is false regarding Reactive Web Apps?**

- A. A reactive web application is an application for multiple devices
- B. Data requests are synchronously executed**
- C. The code generated by OutSystems results in a single-page application
- D. A developer creates a Reactive Web App in Service Studio

The statement that data requests are synchronously executed is false in the context of Reactive Web Apps. Reactive Web Applications developed in OutSystems leverage asynchronous data fetching, allowing for smoother performance and a more responsive user experience. In this architecture, data requests are handled in the background, preventing the UI from freezing while waiting for data responses. This asynchronous behavior is crucial in maintaining the interactive nature of single-page applications, which is what Reactive Web Apps aim to achieve. The other statements are true and align with the characteristics of Reactive Web Apps. They are indeed designed to function across multiple devices, ensuring that a seamless user experience is maintained regardless of the device used. The code generated results in a single-page application, emphasizing efficiency and speed in user interactions. Additionally, developers create these applications using Service Studio, a development environment specifically tailored for OutSystems app development, which supports the rapid application development model.

**9. Can the value of a site property be modified in the Service Center at runtime?**

- A. True**
- B. False**
- C. Only during design time.**
- D. Only in the developer environment.**

The value of a site property can indeed be modified in the Service Center at runtime, which is why the selected answer is correct. Service Center, as a management console for OutSystems applications, allows developers and administrators to make real-time changes to site properties without needing to redeploy the application. This flexibility is crucial for adjusting configurations, such as connection strings or feature toggle values, without disrupting the application's operation or requiring downtime. This capability supports the need for dynamic responses in application behavior based on changing requirements or environmental conditions. Editing site properties in this manner enables quick adjustments to performance settings, thereby enhancing the maintainability and adaptability of the application over time.

**10. What does the action 'Refresh Data' do in a Screen Action?**

- A. Fetches new data from the database**
- B. Clears local storage**
- C. Initializes input parameters**
- D. Updates UI components**

The action 'Refresh Data' in a Screen Action primarily fetches new data from the database. When invoked, this action helps ensure that the interface reflects the latest state of the data stored in the backend. This is crucial for applications where information changes dynamically, enabling the user to see up-to-date data without needing to navigate away from the current screen. In contrast, clearing local storage primarily involves removing cached or previously stored data on the client-side and does not directly impact data retrieval from the database. Initializing input parameters pertains to setting up initial values for parameters, which is a different function from refreshing data. Updating UI components refers to modifying the visual aspects of the screen, which can be a result of refreshing data, but does not inherently mean the action retrieves new data. Thus, 'Refresh Data' specifically emphasizes retrieving and reflecting the current data state in the application.