

# OutSystems

## Exam Questions Architecture-Specialist-11

Architecture Specialist (OutSystems 11) Exam



#### NEW QUESTION 1

\_Sync module is for

- A. Reusable Core Services with public entities, actions, and blocks.
- B. Isolated Business Logic (Actions) or Core Widgets (blocks), to manage complexity, composition or to have its own lifecycle.
- C. A BL becomes a Calculation Engine if it performs complex calculations, (e.
- D. an invoice calculation engine or an insurance simulator). Engines are usually subject to versions.
- E. Logic to Synchronize data in CS's with an external system
- F. Isolating this logic makes the CS completely system agnostic and it's easier to decouple or replace the external system.
- G. Technical wrapper to expose an API to External consumers, keeping core services system agnostic and supporting multiple versions of the API.

**Answer:** D

#### NEW QUESTION 2

Architecture Canvas has 3 layers. Which is not part of the 3 layer framework?

- A. Foundation
- B. Orchestrator
- C. End-User Layer
- D. Core

**Answer:** B

#### NEW QUESTION 3

What is NOT a best practice for Mobile Application Architecture: Limit server side calls?

- A. Limit Server side calls to online transactions or Synchronization
- B. Do the bulk of the operations on the Client Side before passing information to the Server Side.
- C. Synchronize on every screen or online event for better granularityNo direct calls to backend system
- D. Do call to Outsystems Core Services and Outsystems will handle the interaction with external backend systems.
- E. Direct calls is bad from Security, Performance and Maintainability standpoint
- F. Direct calls will require javascript Code and javascript Code is harder to maintain.

**Answer:** B

#### NEW QUESTION 4

What is a best practice for Mobile Application Architecture: Local Storage?

- A. Do not use local storage(mobile device), instead try to use central storage(server side)
- B. Map server side static entities into local entities
- C. Have a local storage inside the CS Module instead of M\_CS Module
- D. Use a centralized local storage for all mobile applications to ensure maintainability

**Answer:** B

#### NEW QUESTION 5

What does NOT happen due to a lack of architecture concerns?

- A. Inflexible and slow-moving legacy systems : adapting legacy systems to business changes may be difficult
- B. Changes in complex and inflexible systems can take a long time
- C. Tech Debt : AI Mentor will raise architectural tech debt such as cyclic dependency and side to side dependency
- D. Unmanageable dependencies : System not isolated from each other
- E. Updating or replacing a system has a cascade/snowball effect on other systems
- F. Poor service abstraction : Business concepts not correctly isolated, business rules tend to be spread over different systems and little to no code reuse

**Answer:** B

#### NEW QUESTION 6

Which of the following Data elements can we find in a Foundation layer Module?

- A. CRUD actions for Entities
- B. Core Entities (exposed as read-only)
- C. Non-core Entities
- D. Entities to save UI states

**Answer:** C

#### NEW QUESTION 7

Which of the below best matches this statement : "Needed if data is coming from MULTIPLE external systems. IS will decide which driver to use depending on the data."

- A. Transparency Service Pattern 1 way (simplification)
- B. Library : Extension Pattern
- C. ECS with isolated synchronization logic
- D. ECS Lazy Load variation

- E. ECS with publish/subscribe through an ESB
- F. ECS Summary cache only variation
- G. Library : Connector Pattern
- H. ECS with direct integration
- I. Base ECS pattern
- J. Transparency Service Pattern

**Answer:** J

#### NEW QUESTION 8

\_Lib module is for

- A. have several integration services with different systems, performing the same type of O operation (e. B. printers) you can create several drivers exposing the same API, with specialized implementations (like the transparency services pattern).
- C. Technical wrapper to consume and normalize an external service
- D. Reusable Core Services with public entities, actions, and blocks.
- E. Theme, look & feel elements, menu, etc.
- F. Generic Library module
- G. Reusable UI Patterns for layout and display only - no Business logic.

**Answer:** E

#### NEW QUESTION 9

Which of the below is NOT a reason why application Architecture is important when building quality software solutions?

- A. Reduces Costs : Architecture benefits are not only technical, but affect how you operate
- B. Reduces Risk : Architecture is a cost effective way to mitigate substantial risks and ensure ^ success
- C. Manages Complexity : Helps reduce emerging complexity by focusing on relevant properties and omitting irrelevant details, thus leading to simpler representation
- D. Facilitate Change : When something comes up that requires you to veer from the origina design or path, architecture of your system can show you exactly what needs to change and help with communication and planning.
- E. Supports Planning : Helps the team anticipate and build solutions
- F. Helps Communication : Helps you to get buy in from the business and to communicate overall plan to them
- G. Drives Consensus : Helps create common ground with the team

**Answer:** F

#### NEW QUESTION 10

SSL Pinning is a security best practice for mobile application. Which of the below is FALSE about SSL Pinning?

- A. All of the above are true
- B. SSL Pinning or HTTP Public Key Pinning (HPKP) helps reduce man-in-the-middle attacks
- C. SSL Pinning does not mean hardcoding the public key into the code.
- D. Works on the client side and adds verification of the server certificate against hashes of public keys, which are pre-bundled with the mobile app

**Answer:** C

#### NEW QUESTION 10

In OutSystems, a Foundation Application can NOT contain ...

- A. Core Modules and Foundation Modules.
- B. End-User and Foundation Modules.
- C. End-user and Core Modules.

**Answer:** C

#### NEW QUESTION 14

Which of the below is NOT a suitable advice for designing a Parallel mobile local storage?

- A. Allow table dependency : Normalize tables to promote parallel data fetch
- B. Use Fetch Data : Avoid cascading aggregates in OnInitialize and OnReady
- C. Avoid generic tables : Contains too much data, not all are relevant

**Answer:** A

#### NEW QUESTION 16

Which of the following recommendations should be applied to the Core layer?

- A. Core modules should have Front-end Screens for testing purposes.
- B. Core modules should not have Core Entities.
- C. Core modules should have public Read-only Entities.
- D. Core modules should not have business logic.

**Answer:** C

#### NEW QUESTION 20

Which of the below is NOT a Synchronization Best Practice for mobile application?

- A. Sync only when require
- B. p At session start: sync summary data to local storage At process start: sync process detail to local storage At process/transaction end, sync back to server
- C. Only synchronize delta : Use control timestamps C Avoid long synchronization in a single transaction
- D. Sync only when strictly requiredE Don't sync on every screen or online event
- E. Only synchronize relevant data
- F. Do not use Entity Bulk Operation to ensure small lightweight updates
- G. Ensure sync granularity: Prepare for constant retries without repeating work due to network los
- H. Sync in chunks, incremental by entity

**Answer: D**

#### NEW QUESTION 21

"Spaghetti Architecture" is also known as 'tightly coupled architecture' or 'brittle architecture'. Which is NOT a reason why is "Spaghetti Architecture" bad?

- A. One small change in a component cause a series of cascading effects on other components
- B. Hinder future changes as they become less flexible and difficult to manage
- C. Any changes is maintainable and easy to deploy

**Answer: C**

#### NEW QUESTION 22

Which of the below is not a best practice for mobile security:authentication?

- A. Store password in local storage
- B. Encrypt (only) sensitive data
- C. Authentication : Use google or facebook for online authentication or fingerprint or pin for offline authentication

**Answer: A**

#### NEW QUESTION 27

Which of the below is NOT a weak dependency as of OS11?

- A. Screens
- B. Static Entities
- C. Server Actions
- D. Database Entities
- E. Service Actions
- F. Local Storage Entities
- G. Structures

**Answer: C**

#### NEW QUESTION 29

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