

## Architecture-Specialist-11 Dumps

### Architecture Specialist (OutSystems 11) Exam

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**NEW QUESTION 1**

"Splitting UI elements per functionality" is a best practice to avoid monolithic mobile UI modules? Which of the below is not a best practice?

- A. Screens as layouts that have placeholders and load content from block
- B. The blocks come from CW modules.
- C. Include the Common flow and Menu artifacts
- D. Put CSS in blocks or screen
- E. Allows better performance and seamless screen transitions
- F. Blocks grouped in functional modules with independent life cycles
- G. CSS should only be placed in the mobile theme module

**Answer: C**

**NEW QUESTION 2**

ISO/IEC 25010:2011 adds two more aspect to ISO/IEC 9126:1991. Which of the below is not part of it?

- A. Compatibility : Compatibility was also added as a way to ensure that a piece of software can work together with other systems
- B. Security : Security ensure software solutions can protect information and data
- C. Integration : Integration to allow data exchange with other software

**Answer: C**

**NEW QUESTION 3**

Which of the below is NOT a disadvantage of having a fragmented system or microservices?

- A. All of the above
- B. Monitoring & Logging : for effective monitoring & logging, requires centralized service
- C. Inter-process communication : network latency and hiccups
- D. Complicated Debugging and troubleshooting : root cause may be deep inside the chain of services
- E. Security : need to manage credentials and access management
- F. Limited data mashup in memory and limited to APIs
- G. Multiple transactions committed independently
- H. Fault tolerance : communication errors, service consistency

**Answer: A**

**NEW QUESTION 4**

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 5**

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 6**

\_BL module is for

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

**Answer: C**

**NEW QUESTION 7**

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 difficul
- 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 othe
- 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 8

In which Architecture Canvas layer do you expect to have a higher reusability rate?

- A. End-User layer
- B. Core layer
- C. Foundation layer

**Answer:** C

#### NEW QUESTION 9

The Architecture Canvas is a ...

- A. framework to support Architecture Conventions for Modules in Outsystems
- B. framework to support application architecture design in Outsystems
- C. framework to support Architecture Design Process in Outsystems

**Answer:** B

#### NEW QUESTION 10

\_Pat module is for

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

**Answer:** B

#### NEW QUESTION 10

What is the common naming convention for a mobile version of a CS module?

- A. M\_CS
- B. \_CS
- C. mobile\_CS
- D. m\_cs
- E. m\_CS

**Answer:** E

#### NEW QUESTION 11

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 13

In the Architecture Canvas, where should the API module sit in?

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

**Answer:** A

#### NEW QUESTION 16

What is done in the Organize part of the Architecture Design Process?

- A. Concepts are disclosed to the Architecture team
- B. Concepts are assembled into Modules
- C. Concepts are added to the layers of the Architecture Canvas

**Answer:** C

**NEW QUESTION 19**

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 23**

CS modules is for

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

**Answer:** E

**NEW QUESTION 25**

Which of the below matches the most to Core Module Pattern - ECS Lazy Load variation

- A. ... caches only summary data that is frequently lister, joined or searche
- B. Full detail for a single entry is fetched directly from external syste
- C. Use when whole database too big or costly to synchroniz
- D. Details are only required for single entities (not lists)
- E. ... is a pattern with two modules, a connector module that can be used to encapsulate an external API with the input/output structures and a wrapper module to expose the normalized API to the consumers.
- F. Same as Base ECS pattern, but have a local replic
- G. Store data to serve as a local cach
- H. Pro: Leverage Entity Use, Simpler Integration AP
- I. Con: Less impact on source system
- J. ... Entity is exposed as read-only and API is available to centralize business logic for entity creation/update
- K. ... tries to fetch data from local cache entity, if not there, get single entry from the external syste
- L. Cache only that record (read-through caching) Use when whole database too big or costly to synchroniz
- M. Integration only touches a small portion of the databas
- N. Avoid if access to lists of data is needed up front
- O. Same as ECS with local replica but API module is provide
- P. So any changes to the external system can notify OS, which OS then gets update from the ERP system (subscription system)
- Q. Same as ECS with local replica but synchronization logic is separate
- R. Pro: Code independenc
- S. Consumers of CS is not affected by Syn
- T. Sync can orchestrate several CS
- . ... Entity is not in Outsystems but in an external ERP syste
- . IS just makes remote call to external system/databas
- . No data is being kept inside O
- . Data retrieval may not be optimized as it needs to traverse two different systems to get the information bac
- . Con: Integration API must support all use cases
- . ... is needed if data is coming from MULTIPLE external system
- . IS will decide which driver to use depending on the data.
- . ... a wrapper used to contain the logic, actions and data that will expose code that is inside of i external library or to inspect external database and import the data structures so they can be used as entities inside of OS

**Answer:** E

**NEW QUESTION 26**

Which of the below matches the most to Library Module Pattern - Extension Pattern...

- A. ... is a pattern with two modules, a connector module that can be used to encapsulate an external API with the input/output structures and a wrapper module to expose the normalized API to the consumers.
- B. Same as ECS with local replica but API module is provide

- C. So any changes to the external system can notify OS, which OS then gets update from the ERP system (subscription system)
- D. ... tries to fetch data from local cache entity, if not there, get single entry from the external system
- E. Cache only that record (read-through caching) Use when whole database too big or costly to synchronize
- F. Integration only touches a small portion of the database
- G. Avoid if access to lists of data is needed up front
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- Q. Consumers of CS is not affected by Sync
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  - . ... a wrapper used to contain the logic, actions and data that will expose code that is inside of ) external library or to inspect external database and import the data structures so they can be used as entities inside of OS
  - . Same as Base ECS pattern, but have a local replica
  - . Store data to serve as a local cache
  - . Pro: Leverage Entity Use, Simpler Integration API
  - . Con: Less impact on source system

**Answer: I**

#### NEW QUESTION 28

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 30

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