

OutSystems

Exam Questions Architecture-Specialist-11

Architecture Specialist (OutSystems 11) Exam



NEW QUESTION 1

Adopting a naming convention can have some benefits. Of the sentences below, which one is NOT a benefit of adopting a naming convention?

- A. Enforce the reference architecture.
- B. Avoid error codes.
- C. Normalize patterns.
- D. Reveal the nature of each Module.

Answer: B

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

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

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

Answer: B

NEW QUESTION 4

Considering Discovery, which of the following sentences is FALSE?

- A. Discovery automatically assigns a module to an Architecture Canvas layer, following the module's naming convention.
- B. Discovery only validates architecture rules at the module level.
- C. Discovery allows you to determine for every module, which elements are being consumed by other modules.
- D. Discovery cannot categorise modules to domains

Answer: B

NEW QUESTION 5

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

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

Answer: J

NEW QUESTION 6

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 7

Which of the below matches the most to Core Module Pattern - Base ECS Pattern...

- A. ... 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
- B. ... caches only summary data that is frequently listed, joined or searched
- C. Full detail for a single entry is fetched directly from external system
- D. Use when whole database too big or costly to synchronize
- E. Details are only required for single entities (not lists)
- F. Same as ECS with local replica but synchronization logic is separate
- G. Pro: Code independence
- H. Consumers of CS is not affected by Sync
- I. Sync can orchestrate several CS
- J. ... 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.
- K. ... is needed if data is coming from MULTIPLE external system
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- T. IS just makes remote call to external system/databases
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 - . Data retrieval may not be optimized as it needs to traverse two different systems to get the information back
 - . Con: Integration API must support all use cases
 - tries to fetch data from local cache entity, if not there, get single entry from the external system
 - . Cache only that record (read-through caching) Use when whole database too big or costly to synchronize
 - . Integration only touches a small portion of the databases
 - . Avoid if access to lists of data is needed up front
 - Entity is exposed as read-only and API is available to centralize business logic for entity creation/update

Answer: D

NEW QUESTION 8

Which of the below is not part of the Architecture Validation Rules?

- A. Layer Applications Correctly
- B. Don't Mix Sponsors : Split the Apps based on the Lines of Business
- C. Layer Entities Correctly
- D. Layer Modules Correctly
- E. Don't Mix Owners

Answer: C

NEW QUESTION 9

In OutSystems, a Core Application can contain ...

- A. End-User, Core, and Foundation Modules.
- B. Foundation and Core Modules
- C. Only Foundation Modules.
- D. End-User and Core Modules.

Answer: B

NEW QUESTION 10

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 10

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 11

Which of the following options denotes the advantages of defining a Style Guide up front?

- A. Security and scalability.
- B. Speed up the development phase.
- C. Improve performance and maintainability.
- D. Allows apps and the Style Guide to be deployed to Production.

Answer: C

NEW QUESTION 13

Which is not a reason you should use Architecture Canvas?

- A. Promotes segregation and loose coupling of services
- B. Optimizes lifecycle independence
- C. Promotes abstraction of reusable services
- D. Minimizes impact of changes

Answer: A

NEW QUESTION 18

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 19

Elements such as the menu and login can be shared across different apps. In the menu and login are defined inside the theme. Which use case is this?

- A. Portal
- B. Intranet
- C. Independent Apps

Answer: A

NEW QUESTION 23

Which of the below is NOT part of the three step process of Architecture Design Process?

- A. Assemble
- B. Shape
- C. Disclose
- D. Organize

Answer: B

NEW QUESTION 24

The Architecture Design Process has three steps. Which of the options below is NOT one of those steps?

- A. Organize
- B. Plan
- C. Assemble
- D. Disclose

Answer: B

NEW QUESTION 28

In OutSystems, an application with Foundation, Core, and End-User Modules is a

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

Answer: A

NEW QUESTION 30

Which of the following is an Assembling principle?

- A. Keep concepts with different lifecycles apart.
- B. Join all integrations into a single Module.
- C. Disclose business concepts and integration needs.
- D. Isolate all business concepts.

Answer: A

NEW QUESTION 34

_API module is for

- A. Logic to Synchronize data in CS's with an external syste
- B. Isolating this logic makes the CS completely system agnostic and it's easier to decouple or replace the external system.
- 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. Technical wrapper to expose an API to External consumers, keeping core services system agnostic and supporting multiple versions of the API.
- F. Reusable Core Services with public entities, actions, and blocks.
- G. Isolated Business Logic (Actions) or Core Widgets (blocks), to manage complexity, composition or to have its own lifecycle.

Answer: C

NEW QUESTION 36

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 37

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 42

Considering Architecture Dashboard(AI Mentor), which of the following sentences is FALSE?

- A. Architecture Dashboard allows you to automatically apply a solution to solve a found code pattern.
- B. Architecture Dashboard performs a code analysis that uncovers patterns related to performance, security, architecture and maintainability.

Answer: A

NEW QUESTION 44

Which of the below matches the most to Core Module Pattern - ECS Summary Cache only variation

- A. Same as Base ECS pattern, but have a local replic
- B. Store data to serve as a local cach
- C. Pro: Leverage Entity Use, Simpler Integration AP
- D. Con: Less impact on source system
- E. ... caches only summary data that is frequently lister, joined or searche
- F. Full detail for a (•) single entry is fetched directly from external syste
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Answer: B

NEW QUESTION 47

_Th module is for

- A. to have several integration services with different systems, performing the same type of 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. Theme, look & feel elements, menu, etc.
- E. Generic Library module.
- F. Reusable UI Patterns for layout and display only - no Business logic.

Answer: C

NEW QUESTION 50

Which of the below is NOT a reason for adopting Naming Conventions for Modules

- A. Reveal nature of each module
- B. Ensure it belongs to the correct layer
- C. Enforce the reference architecture
- D. Normalize known patterns

Answer: B

NEW QUESTION 54

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 57

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 60

Which of the following is NOT a benefit of having well-defined application architecture?

- A. Poor service abstraction
- B. Reduces costs
- C. Reduces risk
- D. Supports planning

Answer: A

NEW QUESTION 61

Themes and Layouts are an important element of an application. In which of the following would you define these elements?

- A. MyApp_CS Module, in the Foundation layer
- B. MyApp_BL, in the Foundation Layer.
- C. MyApp_Th Module, in the End-User layer
- D. MyApp_MTh, in the Foundation layer.

Answer: C

NEW QUESTION 63

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 system
- 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.g. an invoice calculation engine or an insurance simulator). Engines are usually subject to versions.
- F. Reusable Core Services with public entities, actions, and blocks.

Answer: E

NEW QUESTION 67

Which of the below matches the most to Core Module Pattern - ECS with Local Replica Pattern...

- A. ... Entity is not in Outsystems but in an external ERP system
- B. IS just makes remote call to external system/databases
- C. No data is being kept inside OS
- D. Data retrieval may not be optimized as it needs to traverse two different systems to get the information back
- E. Con: Integration API must support all use cases
- F. ... 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.
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- V. Cache only that record (read-through caching) Use when whole database too big or costly to synchronize
- W. Integration only touches a small portion of the databases
- X. Avoid if access to lists of data is needed up front
- Y. ... is needed if data is coming from MULTIPLE external system
- Z. IS will decide which driver to use depending on the data.
- AA. Same as ECS with local replica but API module is provided
- AB. So any changes to the external system can notify OS, which OS then gets update from the ERP system (subscription system)

Answer: G

NEW QUESTION 68

Which of the following is a benefit of having good architecture?

- A. Poor service abstraction
- B. Unmanageable dependencies
- C. Manages complexity
- D. Slow-moving legacy systems

Answer: C

NEW QUESTION 70

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

- A. ... caches only summary data that is frequently listed, joined or searched
- B. Full detail for a single entry is fetched directly from external system
- C. Use when whole database too big or costly to synchronize
- 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.
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NEW QUESTION 74

_CW module is for

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

Answer: D

NEW QUESTION 78

What is Application Composition Process?

A.

Answer: B

Explanation:

B. Process to package modules into apps

NEW QUESTION 79

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 80

_IS module is for

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

Answer: E

NEW QUESTION 81

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