



OutSystems

Exam Questions Architecture-Specialist-11

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

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 3

There are generally 4 common style guide scenario. Which of the below is NOT a common style guide scenario?

- A. Specialize a Built-in: Use when introducing changes to an existing theme for multiple app
- B. First, create a custom theme that REFERENCE the Base Them
- C. Second, clone a CustomTemplate from the Base Template but this custom theme will reference the custom theme created previousl
- D. Third, create new applications based on the Custom Theme and Custom Template
- E. Built-in Style Guide: Uses Built-in style guide from Outsystems U
- F. Minor customizations to the Base Theme should be done inside the App Theme.C, Build Your Own: Use when custom style guide cannot benefit from any existing them
- G. Just like Clone a Built In scenario, clone both Custom Theme and Custom Template from the Base Theme and Base Template, however clone the Base Theme from Outsystems UI.
- H. Since the theme is very basic, front-end developer will have to expand and design the theme from there.Modify Built-in Style Guide: Use when only small changes are required for single applicatio
- I. First, create a custom theme that REFERENCE the Base Them
- J. Second, clone a Custom Template from the Base Template but this custom theme will reference the custom theme created previousl
- K. Third, reference that application to the custom Theme and Template.
- L. Clone a Built-in: Use when introducing extensive changes to existing them
- M. First, CLONE a custom theme from a Base Them
- N. Second, clone a Custom Template from the Base Template but this custom theme will reference the custom theme created previousl
- O. Third, create new applications based on the Custom Theme and Custom Template.Base Theme can be Outsystems UI or your own custom theme.

Answer: D

NEW QUESTION 4

What is NOT a best practice for Mobile Application Architecture: transactions & granularity?

- A. Have long synchronizations in a single transactio
- B. Better UX as app does not need to sync all the tim
- C. Is prepared for constant offline or device standby
- D. Ensure order and sync granularit
- E. Sync incrementally by entity with partial commi
- F. This way O synchronizations is prepared for constant interruptions and allow retries without repeating the entire synchronization from the start.

Answer: A

NEW QUESTION 5

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 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 systems
- L. IS will decide which driver to use depending on the data.
- M. Same as ECS with local replica but API module is provided
- N. So any changes to the external system can notify OS, which OS then gets update from the ERP system (subscription system)
- O. Same as Base ECS pattern, but have a local replica
- P. Store data to serve as a local cache
- Q. Pro: Leverage Entity Use, Simpler Integration API
- R. Con: Less impact on source system
- S. ... Entity is not in Outsystems but in an external ERP system
- T. IS just makes remote call to external system/databases
 - . No data is being kept inside OS
 - . 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

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 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 15

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

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 23

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 26

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 30

Which are NOT part of the major concepts that needs to be investigated in the Disclose phase in Architecture Design Process?

- A. User Experience Expectations
- B. Integration Technology
- C. User Stories, Personas and Roles
- D. Architecture Canvas Modules
- E. Information Architecture

Answer: D

NEW QUESTION 34

Which of the below are not recommendations for Architecture Validations

- A. All public entities in Core Modules should be set to Read-only
- B. No business logic in the Foundational Modules
- C. No core entities in Foundational Modules
- D. No screens in the End User Layer
- E. No front-end screens in Core Modules

Answer: D

NEW QUESTION 37

_Lib module is for

- A. have several integration services with different systems, performing the same type of O operation (e. printers) you can create several drivers exposing the same API, with specialized implementations (like the transparency services pattern).
- 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 38

In which of the following scenarios should you choose to clone a built-in Style Guide?

- A. When minor customizations to the base theme should be done inside the app theme.
- B. It is not possible to customize a built-in Style Guide, since it is part of OutSystems UI.
- C. When you want to introduce extensive changes to an existing theme.
- D. When it is not possible to benefit from any existing theme and extensive changes are needed.

Answer: C

NEW QUESTION 42

_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 44

Of the options below, which one is a benefit of adopting the Architecture Canvas?

- A. It's an automatic way to find and fix architecture issues.
- B. It's a systematic approach to architecture design
- C. It promotes the business users' collaboration and understanding
- D. It's a faster architecture design

Answer: B

NEW QUESTION 47

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 48

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
- G. Use when whole database too big or costly to synchroniz
- H. Details are only required for single entities (not lists)
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- K. Consumers of CS is not affected by Syn
- L. Sync can orchestrate several CS
- M. Same as ECS with local replica but API module is provide
- N. So any changes to the external system can notify OS, which OS then gets update from the ERP system (subscription system)
- O. ... Entity is exposed as read-only and API is available to centralize business logic for entity ^ creation/update
- P. ... is needed if data is coming from MULTIPLE external system
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- S. Cache only that record (read-through caching) Use when whole database too big or costly to synchroniz
- T. Integration only touches a small portion of the databas
- . Avoid if access to lists of data is needed up front.
- 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
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- . 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 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 thenormalized API to the consumers.

Answer: B

NEW QUESTION 53

Foundation may have non-business services and business services in them

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 54

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 56

Which of the below is NOT a reason for Validating a Modules' Architecture?

- A. Optimizes lifecycle independence
- B. Promotes microservices
- C. Minimizes impact of changes
- D. Promotes abstraction of reusable services
- E. Stop unmanageable dependencies
- F. Prevent slow deployments, inflexible legacy systems
- G. Avoid poor service abstraction

Answer: B

NEW QUESTION 61

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 62

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 64

"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 66

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 syste

- B. IS just makes remote call to p external system/databas
- C. No data is being kept inside O
- D. Data retrieval may not be optimized as it needs to traverse two different systems to get the information bac
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- R. Con: Less impact on source systemG ... tries to fetch data from local cache entity, if not there, get single entry from the external syste
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 - . Avoid if access to lists of data is needed up front
 - is needed if data is coming from MULTIPLE external system
 - . IS will decide which driver to use depending on the data.
 - . Same as ECS with local replica but API module is provide
 - . 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 71

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

- A. is a pattern with two modules, a connector module that can be used to encapsulate an O external API with the input/output structures and a wrapper module to expose the normalized API to the consumers.
- B. ... is needed if data is coming from MULTIPLE external system
- C. IS will decide which driver to use depending on the data.
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 - . 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

Answer: D

NEW QUESTION 75

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 syste
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- . Store data to serve as a local cach
- . Pro: Leverage Entity Use, Simpler Integration AP
- . Con: Less impact on source system

Answer: I

NEW QUESTION 77

ISO/IEC 9126:1991 included several different dimensions. Which is NOT part of ISO/IEC 9126:1991?

- A. Usability : Usability from the point of view of the users
- B. Efficiency : Efficiency which relates to the performance to the amount of resources used
- C. Portability : Portability which defines the ability to move software between environments
- D. Security : Security which relates to the strength of the of the software against cybersecurity attacks
- E. Reliability : Reliability which ensures that a software solution can maintain it performance over a period of time
- F. Maintainability : Maintainability which relates to the effort needed to make modifications
- G. Functionality : Functionality as a set of functions that satisfy needs

Answer: D

NEW QUESTION 80

Regarding Validation Rules for application composition, which of the following sentences is correct?

- A. Common modules and services should be isolated in a separate app that can be referenced by other apps.
- B. Owners of the Application should not be mixed, but mixing Sponsors has no direct impact on the release.
- C. If you follow all the rules for validating modules, your application composition will be sound, and easy to maintain and deploy.
- D. Applications in the Foundation layer can reference Applications in the End-user layer.

Answer: A

NEW QUESTION 83

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