

OutSystems

Exam Questions Architecture-Specialist-11

Architecture Specialist (OutSystems 11) Exam



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

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

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 5

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 6

OAPI is different compared to API. What is inside an OAPI?

- A. Service Action
- B. REST API

Answer: A

NEW QUESTION 7

_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 8

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 9

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 10

Consider the following Module names and the suggested naming conventions for Modules. Which of these is a mobile Module?

- A. Customer_CW
- B. Mobile_API
- C. Service_CS
- D. Pricing_MBL

Answer: D

NEW QUESTION 10

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 15

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 17

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 22

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 24

_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).
- 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 25

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 27

Which of the below is not part of the Architecture Validation

- A. No Downward References To Foundation Modules
- B. No Side References Between End-User Modules
- C. No Circular References
- D. No Upward References

Answer: A

NEW QUESTION 30

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 35

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 39

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 43

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 47

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

- A. TRUE
- B. FALSE

Answer: B

NEW QUESTION 51

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 55

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 58

"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 60

The Architecture Canvas is a multi-layer framework. Which of the following is NOT a benefit of this framework?

- A. It optimizes lifecycle independence.
- B. It identifies possible performance bottlenecks.
- C. It minimizes the impact of changes.
- D. It promotes a correct abstraction of reusable services.

Answer: B

NEW QUESTION 61

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 64

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.
- F. Same as Base ECS pattern, but have a local replica
- G. Store data to serve as a local cache
- H. Pro: Leverage Entity Use, Simpler Integration API
- 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 system
- L. Cache only that record (read-through caching) Use when whole database too big or costly to synchronize
- M. Integration only touches a small portion of the database
- N. Avoid if access to lists of data is needed up front
- O. Same as ECS with local replica but API module is provided
- 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 independence
- S. Consumers of CS is not affected by Sync
- T. Sync can orchestrate several CS
- Entity is not in Outsystems but in an external ERP system
- . IS just makes remote call to external system/database
- . 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
- 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 an 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 65

_CW module is for

- A. Logic to Synchronize data in CS's with an external system
- 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 68

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 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.
- D. ... tries to fetch data from local cache entity, if not there, get single entry from the external system
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- . Con: Integration API must support all use cases

Answer: D

NEW QUESTION 72

What is Application Composition Process?

A.

Answer: B

Explanation:

B. Process to package modules into apps

NEW QUESTION 77

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

Concepts are assembled into Modules in the Assembl are not principles in the Assemble step.

- A. Don't join concepts with different lifecycles
- B. Apply known design patterns
- C. N/A
- D. Join conceptually-related concepts
- E. Isolate reusable logic from Integration logic

Answer: C

NEW QUESTION 85

_IS module is for

- A. Generic Library module.
- B. several integration services with different systems, performing the same type of operation(e.
- C. 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 90

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