

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

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 3

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 4

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

- A. Limit Server side calls to online transactions or Synchronizatio
- 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 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

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 7

Which of the below are FALSE about UI framework?

- A. Patterns - are blocks that provide common and reusable U
- B. Chat message, date picker and carousel are a few example
- C. Contains reusable UI components.

- D. All of the above are true
- E. Theme - for the look and feel of your applications, which includes screen layouts, global stylesheet and grid definition
- F. Contains CSS styles and classes.
- G. Templates - Defines the structure of the application module
- H. Templates contains screen p definitions and basic set of functionalities, including authenticatio
- I. Contains common layouts, menu, login and reference to the theme .

Answer: B

NEW QUESTION 8

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 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

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 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 12

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 14

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 16

Which of the below matches the most to Core Module Pattern - ECS with Direct Integration 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. ... caches only summary data that is frequently listed, joined or searched
- G. Full detail for a single entry is fetched directly from external system
- H. Use when whole database too big or costly to synchronize
- I. Details are only required for single entities (not lists)
- J. ... 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
- K. Same as Base ECS pattern, but have a local replica
- L. Store data to serve as a local cache
- M. Pro: Leverage Entity Use, Simpler Integration API
- N. Con: Less impact on source system
- O. ... 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.
- P. ... Entity is exposed as read-only and API is available to centralize business logic for entity creation/update
- 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
- . Same as ECS with local replica but API module is provided
- . So any changes to the external system can notify OS, which OS then gets update from the ERP system (subscription system)
- is needed if data is coming from MULTIPLE external system
- . IS will decide which driver to use depending on the data.
- 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

Answer: H

NEW QUESTION 20

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 25

Consider the common style guide scenarios presented in this course. Which of the following statements is true?

- A. The "specialize a built-in Style Guide" scenario should be used when the changes to the base theme are not extensive.
- B. The "clone a built-in Style Guide" should be used when you want to extend an existing theme.
- C. Build-your-own Style Guide should be used when the changes in the theme are not extensive.

Answer: A

NEW QUESTION 29

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 31

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 33

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 35

What is the new name for Architecture Dashboard?

- A. Architecture Validation
- B. Architecture Canvas
- C. Architecture Framework
- D. AI Mentor

Answer: D

NEW QUESTION 36

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 40

What is NOT a best practice for Mobile Application Architecture: Local Storage?

- A. Adopt the correct sync frequency: Either at process start and online or at process/transaction end and online
- B. Sync on every screen or online event
- C. Sync data required per use case: Sync summary data on Session star
- D. On dataselection, sync p its details.Example: if you are accessing Purchasing data, sync the summary data on Session star
- E. On selecting the Purchasing item, sync the details of the Purchasing item such as photos or price, a

Answer: B

NEW QUESTION 42

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 47

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 48

Which of the below matches the most to Core Module Pattern - ECS with Isolated Synchronization Logic Pattern...

- A. Same as ECS with local replica but synchronization logic is separate
- B. Pro: Code ^ independenc
- C. Consumers of CS is not affected by Syn
- D. Sync can orchestrate several CS
- E. ... Entity is exposed as read-only and API is available to centralize business logic for entity creation/update
- F. ... a wrapper used to contain the logic, actions and data that will expose code that is inside of O external library or to inspect external database and import the

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Answer: A

NEW QUESTION 53

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 55

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 58

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 59

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