



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

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 3

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 4

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 5

Which of the below is NOT a suitable advice for designing a LIGHTWEIGHT mobile local storage?

- A. Denormalize the local storage
- B. Define only used attributes
- C. Group relevant information
- D. Store all records no matter if relevant or irrelevant

Answer: D

NEW QUESTION 6

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 7

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 8

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 9

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

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 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 14

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 18

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 22

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 23

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 28

_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 33

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 34

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 39

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 42

_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 45

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 49

What is the new name for Architecture Dashboard?

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

Answer: D

NEW QUESTION 53

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 56

"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 59

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

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 65

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 p external system/databases
- 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 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 O external API with the input/output structures and a wrapper module to expose the normalized API to the consumers.
- G. Pro: Code independence
- H. Consumers of CS is not affected by Syn
- I. Sync can orchestrate several CS
- 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. ... caches only summary data that is frequently listed, joined or searched
- L. Full detail for a single entry is fetched directly from external system
- M. Use when whole database too big or costly to synchronize
- N. Details are only required for single entities (not lists)
- O. ... Entity is exposed as read-only and API is available to centralize business logic for entity creation/update
- 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. Cache only that record (read-through caching) Use when whole database too big or costly to synchronize
- T. Integration only touches a small portion of the databases
- . 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 provided
- . 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 67

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 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 72

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 databases
- 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
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NEW QUESTION 77

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- G. Reusable Core Services with public entities, actions, and blocks.

Answer: C

NEW QUESTION 82

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 85

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