

OutSystems

Exam Questions Architecture-Specialist-11

Architecture Specialist (OutSystems 11) Exam



NEW QUESTION 1

_Sync module is for

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

Answer: D

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

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

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

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 Synchronization
- 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

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

- A. Service Action
- B. REST API

Answer: A

NEW QUESTION 7

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 8

_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 system
- 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 lifecycle.
- 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 9

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 10

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 14

Which of the following Data elements can we find in a End-User layer Module?

- A. Non-core Entities
- B. Entities to save UI states
- C. Core Entities (exposed as read-only)
- D. CRUD actions for Entities

Answer: B

NEW QUESTION 17

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 18

Which of the below are FALSE about UI framework?

- A. Patterns - are blocks that provide common and reusable UI
- B. Chat message, date picker and carousel are a few examples
- 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 definitions and basic set of functionalities, including authentication

I. Contains common layouts, menu, login and reference to the theme .

Answer: B

NEW QUESTION 21

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 24

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 28

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 29

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 31

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 36

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 41

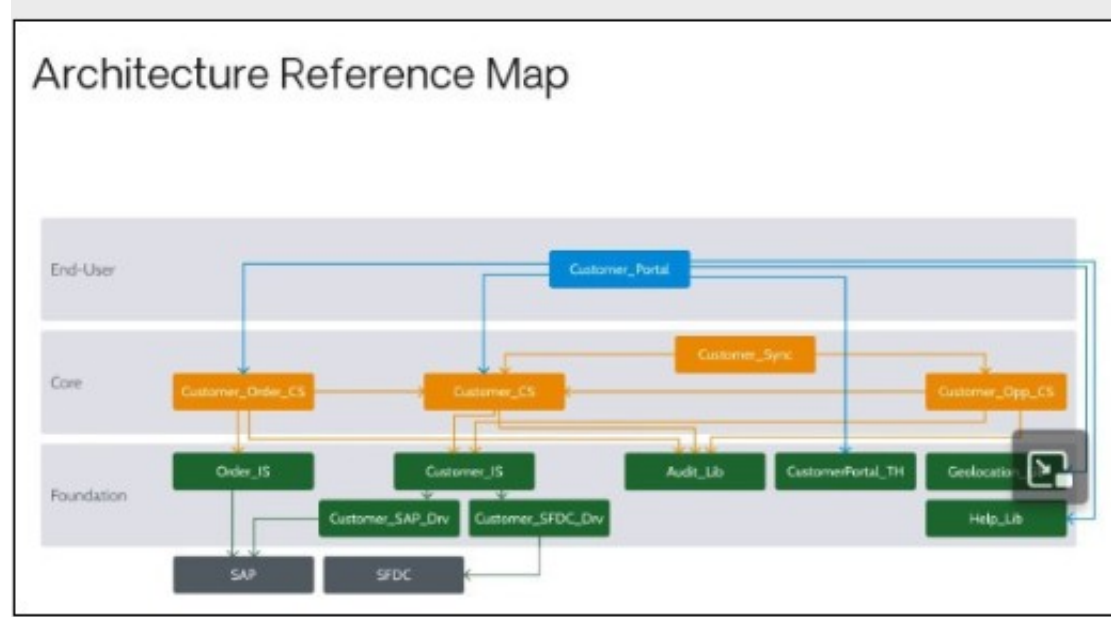
_Pat module is for

- 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 45

What is the Architecture Blueprint?



- A. Is the end result of Architecture Design Proces
- B. At this point you should add dependencies between the Modules.
- C. Above is the answer

Answer: A

NEW QUESTION 49

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 syste
- B. IS just makes remote call top 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
- E. Con: Integration API must support all use cases
- F. ... caches only summary data that is frequently lister, joined or searche
- G. Full detail for a single entry is fetched directly from external syste
- H. Use when whole database too big or costly to synchroniz
- 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 replic
- L. Store data to serve as a local cach
- M. Pro: Leverage Entity Use, Simpler Integration AP
- 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 independenc
- S. Consumers of CS is not affected by Syn
- T. Sync can orchestrate several CS
- . 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)
- 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 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

Answer: H

NEW QUESTION 51

There are 3 common scenarios for Sharing a Style Guide. Which of the below is not part of th scenario.

- A. Intranet (Single Sign On): Own Menu, Common Login Flo
- B. Menu is defined in the Custom Template, but Login is defined in the Custom Them
- C. Application reference the Custom Them which picks up the Login.
- D. Enterprise Apps: Common Menu, Common Login Flo
- E. Menu is defined in the Custom Theme, but Login is defined in the Custom Template.
- F. Independent Apps : Own Menu, Own Login Flo
- G. Login and Menu is defined in the Custom Templat
- H. Applications reference to its own Application Theme thus do not use the Login and Menu in the Custom Template.
- I. Portal : Common Menu, Common Login Flo
- J. Login and Menu is defined in the Custom Them Application Theme reference the Custom Theme thus have a shared menu and login flow.

Answer: B

NEW QUESTION 56

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 58

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 61

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 62

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 63

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 68

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 73

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 77

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 79

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 84

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 data structures so they can be used as entities inside of OS
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- . 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.

Answer: A

NEW QUESTION 86

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 91

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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- . Con: Less impact on source system

Answer: I

NEW QUESTION 96

What is Application Composition Process?

A.

Answer: B

Explanation:

B. Process to package modules into apps

NEW QUESTION 99

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 100

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 105

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